



EUROPEAN COMMISSION

Directorate-General Education and Culture

Tempus application form Joint European Project 2006

*Teacher Education - Innovation of Studies in
Mathematics and IT*

JEP_41110_2006

SUBMISSION PROCEDURE

Please read the following explanations and instructions concerning the submission of the proposal carefully.

- Only applications using the correct form will be accepted and processed.
- Before completing the form, please read the relevant sections in the Guide for Applicants, which can be obtained from the Tempus website at the following address: <http://ec.europa.eu/tempus>.
- In the “get involved” section of the website (Actions ≥ Get involved ≥ Application forms) applicants will find the “Frequently Asked Questions” for grant applicants, which is a helpful tool providing relevant answers to the questions arising during the preparation of an application.
- For a better understanding of the administrative approaches used once a project has been selected, applicants are also advised to consult the “manage your project” section of the website (Actions ≥ Manage your project), where the contractual documents and “Frequently Asked Questions” for grant holders can be found.
- The application must be word-processed, using a computer. Hand written applications will not be accepted. Please note that the version of the application sent by e-mail is the authentic one and will be used for assessment purposes; changes made after the submission will not be accepted and considered.
- Applicants should use as application language the operational language of communication between the institutions involved in the project.
- **Applications must be sent by e-mail, while all signed original supporting and administrative documents must be sent by registered mail in one package (documents sent separately will not be accepted) at a later deadline.** Applications sent by post or fax and supporting and administrative documents sent by e-mail (as PDF documents) or fax will not be accepted.
- The deadline for submission by e-mail is 15th December 2006, 23:59 Central European Time. Applicants are strongly advised not to leave the submission of their applications until the last possible moment. Applicants should consider that problems arising can only be dealt with during of-office hours and that technical support will be guaranteed until 16:00 (Central European time) on 15 December 2006. Applicants are therefore strongly advised to submit applications in a timely manner.
- Sections of the application that are not available electronically such as endorsement letters and CVs of external experts do not need to be sent by e-mail.
- The e-mail-based applications must be sent to:

JEP2006@etf.europa.eu

- Following the submission of the application by e-mail, applicants will receive an electronic acknowledgement of receipt by 19th of December 2006 at the latest, indicating the registration number assigned to the application. This acknowledgement will be sent to the e-mail address from which the application has been submitted.

- The registration number must be indicated in the cover letter accompanying the supporting and administrative documents to be dispatched by post and used in all future correspondence about the project.
- Applicants should not staple the original supporting and administrative documents and should ensure that the reference numbers indicated on the endorsement letters are in accordance with the ones used in section II.
- The deadline for submission of the original supporting and administrative documents is 5th January 2007 (date as per post mark). **Only those supporting and administrative documents accompanied by a cover letter referring to a valid registration number will be accepted.** Please note, that applicants will not receive an acknowledgement of receipt for their original supporting documents. However, applicants will be contacted in case these documents should not have reached the ETF by the 01st of March 2007.
- The signed original supporting and administrative documents and two copies thereof must be sent in the same envelope, using registered mail to:

**EUROPEAN TRAINING FOUNDATION
TEMPUS DEPARTMENT – SELECTION TEAM
JEP APPLICATION DEADLINE OF 15/12/06
VIALE SETTIMIO SEVERO, 65
10133 TORINO
ITALY**

- The original supporting and administrative documents and copies dispatched by post must contain the signed declaration, all the endorsement letters and curricula vitae in case of proposed individual experts as well as the signed legal entity and financial identification forms.
- Applicants should be aware that only postal or courier registration slips indicating the project registration number will be accepted as proof of dispatch.
- Applicants should be aware that upon completion of the selection procedure **all** communication concerning this application (such as information on the decision, the provision of feedback to unsuccessful applicants, etc.) will **solely** take place with the person indicated in this application as “grant applicant” (reference number 1 in section II).
- The information provided in the application is subject to EU legislation on protection of personal data and confidentiality of information. For further information, please check: <http://www.etf.europa.eu/website.nsf?OpenDatabase&Content=http://www.etf.europa.eu/website.nsf/pages/Legal+notice?openDocument&LAN=EN>

THE APPLICATION FORM

This application form contains features that allow the automatic transfer of information into the database used for the selection and narrows down the possibility of applicants' possible mistakes.

Applicants will find below some explanations on the structure of the form as well as some hints on how to fill it in. Should you nevertheless encounter any problems, do not hesitate to contact the Tempus Department of the European Training Foundation for prompt support, at the following e-mail address: Tempus_IT_Team@etf.europa.eu

How to complete the form:

The structure of the following sections of this form is protected.

- Section I, Declaration
- Section II, Basic Data of the Project, List of Consortium Members
- Section IV, Summary of the Project
- Section V, Funding requirements
- Section VI, Administrative Documents: Legal entities, Financial identification

Applicants are allowed to fill in only the specific fields, which are **highlighted in grey** while the rest of the form is not editable. There are **free-text fields**, where any text can be inputted (ex: <<Example text field>>), and **selection fields**, where you will have to select from a list of predefined values (ex. <<Please select a value>>). As a general rule, in order to type into a field or to select a tick box, click on it with your mouse. You can also easily move from one field to the next using TAB or arrow keys.

In case the requested information is to be provided in the form of a list, you can start a new line after each individual entry by clicking on the "enter" key, within the same field, as in a normal "word" document.

Please note that some fields are automatically filled-in based on your input in other fields. For instance, you will only have to input the project title once on the cover page, and it will be displayed in all other sections of the application requesting this information. In general, you should always fill in the first field, requesting the information, which will then be copied into subsequent sections. We therefore recommend that you fill in the form starting from the cover page.

In order to ease the navigation in the application form, we recommend using the Document Map feature (from MS Word menu, "View" → "Document Map")

Beside these general hints please take the following issues regarding the different sections of the form into account:

- Section II, List of consortium members:

The form includes a limited number of "boxes" for participating consortium members and individual experts. Should you plan to involve more consortium members and/or individual experts, please insert their data in the field called: "*Contact details for further consortium members*" and "*Contact details for further individual experts*" including the same information as for the protected "boxes".

- Section V, Funding requirements:

The Summary table n°8 ("*Summary of project funding requirements*") will be automatically filled in with the total costs of each heading in the relevant tables n° 1-6.

Furthermore, within table n°8, the percentage of co-financing of the project will be verified automatically, once the amount to be co-financed is inserted in the proper field in table n°7.

SECTION I: DECLARATION*To be completed by the Grant Applicant*

The following should be signed by the grant applicant *and* by the legal representative of the grant applicant's institution. *Please note that the Applicant Higher Education Institution must be based in the European Union.*

1. We have stable and sufficient resources of funding to maintain our activities throughout the period during which the project is carried out;
2. We are not bankrupt or being wound up, are not having our affairs administered by the courts, have not entered into an arrangement with creditors, have not suspended business activities, are not subject of proceedings concerning those matters, and are not in any analogous situation arising from a similar procedure provided for under national legislation or regulations;
3. We have the professional competencies and qualifications required to complete the proposed project;
4. We have not been guilty of grave professional misconduct proven by any means which the contracting authority can justify;
5. We have not been convicted of an offence concerning their professional conduct by a judgement which has the force of res judicata;
6. We have not been subject of a judgement which has the force of res judicata for fraud, corruption, involvement in a criminal organisation or any other illegal activity detrimental to the Communities' financial interests;
7. Following an award procedure financed by the Community budget, we have not been declared to be in serious breach of contract for failure to comply with the contractual obligations;
8. We have fulfilled obligations relating to the payment of social security contributions or the payment of taxes in accordance with the legal provisions of the country in which we are established or with those of the country of the contracting authority or those of the country where the contract is to be performed.

We, the undersigned, certify that the information given above and in the following project proposal is correct to the best of our knowledge, and that the proposal has been endorsed by the relevant authorities representing the consortium members.

We, the undersigned, have taken note that if found guilty of false declarations will receive financial penalties in proportion to the value of the grants in question.

Title of the project:		<i>Teacher Education - Innovation of Studies in Mathematics and IT</i>	
Ref. Nr. 0 - Legal Representative of the Applicant Higher Education Institution:		Official stamp or seal of the Applicant Higher Education Institution:	
First name and surname: prof. dr Boyan Biolchev			
Place: Sofia Date: 14.12.2006.			
Position: Rector			
Signature:			
Ref. Nr. 1 - Grant Applicant:			
First name and surname: prof. dr Chavdar Lozanov			
Signature:			
Place: Sofia	Date: 14.12.2006.	Application Number: (Registration number obtained after submission)	

SECTION I: ENDORSEMENT LETTERS

- All **consortium members** (except the Grant Applicant's Higher Education Institution) must submit an endorsement letter to confirm their role and willingness to participate in the project; these must be submitted together with the other supporting and administrative documents by the deadline.

Applicants should follow the model below.

MODEL ENDORSEMENT LETTER

OFFICIAL HEADED PAPER OF THE CONSORTIUM MEMBER

OBJECTIVE: ENDORSEMENT OF THE TEMPUS PROJECT: (FULL TITLE OF THE PROJECT)

CONTENT: *Give details of the application, confirming the support of the consortium member for the project. Specify the role of the consortium member in the project and give details on the contact person.*

For a partner country consortium member indicate how the project fits into the development strategy of the consortium member in the context of the reform of the higher education system.

Please insert a confirmation sentence stating that the consortium member has read the whole application, including the financial details, and is aware of the specific role it will have in the project.

SIGNATURE of the person legally authorised to represent the consortium member

POSITION of the person legally authorised to represent the consortium member

DATE: please remember that the date must be subsequent to the previous Joint European Project application deadline.

OFFICIAL STAMP or SEAL of the consortium member

- For each proposed **individual expert**, a summary CV (maximum of 2 pages) must be included. The CV has to make explicit reference to the expertise to be provided in the framework of the given Joint European Project proposal.

SECTION II: BASIC DATA ON THE PROJECT• **Title of the project:**

<i>Teacher Education - Innovation of Studies in Mathematics and IT</i>
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• **Acronym of the project:**

TEMIT

• **Specific Objectives of the project:**

- | |
|---|
| <ul style="list-style-type: none"> • Innovation and restructuring of curricula for teacher education in mathematics and information technology • Development of printed materials for teacher education • Updating libraries and classrooms for teacher education in mathematics and information technology • Dissemination of improvements thorough programs for in-service teachers |
|---|

• **Partner country/ies involved:** (Please tick the relevant box/es)

CARDS			
<input type="checkbox"/>	MK – former Yugoslav Republic of Macedonia	<input checked="" type="checkbox"/>	ME – Montenegro
<input type="checkbox"/>	AL – Albania	<input checked="" type="checkbox"/>	RS – Serbia
<input type="checkbox"/>	BA – Bosnia and Herzegovina	<input type="checkbox"/>	1244 – Kosovo
<input type="checkbox"/>	HR – Croatia		

Tacis			
<input type="checkbox"/>	AM – Armenia	<input type="checkbox"/>	RU – Russian Federation
<input type="checkbox"/>	AZ – Azerbaijan	<input type="checkbox"/>	TJ – Tajikistan
<input type="checkbox"/>	BY – Belarus	<input type="checkbox"/>	TM – Turkmenistan
<input type="checkbox"/>	GE – Georgia	<input type="checkbox"/>	UA – Ukraine
<input type="checkbox"/>	KZ – Kazakhstan	<input type="checkbox"/>	UZ – Uzbekistan
<input type="checkbox"/>	MD – Moldova		

MEDA			
<input type="checkbox"/>	EG – Egypt	<input type="checkbox"/>	MA – Morocco
<input type="checkbox"/>	IL – Israel (<i>on a self-financing basis only</i>)	<input type="checkbox"/>	SY – Syria
<input type="checkbox"/>	JO – Jordan		

Has the grant applicant institution (Ref. No.:0) previously acted as a grant holder / contractor for a European Commission grant / contract? (Please select from the button below.)

No

If yes, please provide the registration number of the most recent grant agreement / contract:

Please specify with which Directorate General of the European Commission the project had been carried out:

- **Subject area code:** *(Please refer to the Guide for Applicants Glossary of Codes and to Priorities for the partner countries in order to find out about the code for the relevant subject area, in line with the priorities for the partner country/ies involved). Please insert ONE code only*

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The proposal had already been submitted in a previous call: **Yes**

If yes, please provide the registration number:

1. JEP - 40084 - 2005 (a different coverage and form than the present one)
- 2.
- 3.

- **Individual Mobility Grants related to this proposal:** *(Please list any Tempus Individual Mobility Grant funded in the last 12 months in which any of the consortium members has been involved)*

IMG –		IMG -		IMG –
IMG -		IMG -		IMG -
IMG –		IMG –		IMG -

- **Reference number of previous Tempus projects in which consortium members have been involved** (if any):

JEP -		JEP -		JEP –
JEP –		JEP –		JEP –
JEP -		JEP -		JEP -

- **Language of application and of future correspondence:** *(Please select from the list below)*

English(E)

- **Type of the project:** *(Please select from the lists below)*

Curriculum Development (CD)

Only projects with a 2 years duration may be submitted for this selection round.

SECTION II: LIST OF CONSORTIUM MEMBERS

- **Consortium members involved in the project:** (Please include data on all consortium members involved in the project. Refer to the Guide for Applicants, "Glossary of codes" (part IV, page 44) for the relevant codes assigned to countries, which specifies a two letter code for each country. For Kosovo -1244, the code 12 should be used.)

Reference number: 0 – Legal representative of the applicant higher education institution						
<i>(same person as listed in the declaration under Ref. nr. 0)</i>						
<i>Title:</i>	Mr.(M)					
<i>First name:</i>	Boyan	<i>Surname:</i>	Biolchev			
<i>Function at organisation:</i>	Rector					
<i>Name of the organisation:</i>	University of Sofia "St. Kliment Ohridski"					
<i>Type of organisation:</i>	University (U):					
<i>Erasmus University Charter N°</i>						
<i>Legal Status:</i>	Public Sector(PS)					
<i>Faculty:</i>						
<i>Department:</i>						
<i>Country*:</i>	BG	<i>Postal code:</i>	1504			
<i>Town:</i>	Sofia	<i>CEDEX</i>				
<i>Address:</i>	15, Tsar Osvoboditel Blvd.					
<i>Phone:</i>	<i>Country code:</i>	359	<i>City Code:</i>	2	<i>Phone Nr.:</i>	9308 207
<i>Fax:</i>	<i>Country code:</i>	359	<i>City Code:</i>	2	<i>Fax. Nr.:</i>	8466 171
<i>E-mail:</i>	biolchev@ns.admin.uni-sofia.bg					

Reference number: 1 – Grant applicant						
<i>(same person as listed in the declaration under Ref. nr. 1)</i>						
<i>Title:</i>	Mr.(M)					
<i>First name:</i>	Chavdar	<i>Surname:</i>	Lozanov			
<i>Function at organisation:</i>	Professor					
<i>Name of the organisation:</i>	University of Sofia "St. Kliment Ohridski"					
<i>Type of organisation:</i>	University (U)					
<i>Legal Status:</i>	Public Sector(PS)					
<i>Faculty:</i>	Faculty of Mathematics and Informatics					
<i>Department:</i>	Department of Education					
<i>Country*:</i>	BG	<i>Postal code:</i>	1164			
<i>Town:</i>	Sofia	<i>CEDEX</i>				
<i>Address:</i>	5, James Bouchier Blvd.					
<i>Phone:</i>	<i>Country code:</i>	359	<i>City Code:</i>	2	<i>Phone Nr.:</i>	8161 735
<i>Fax:</i>	<i>Country code:</i>	359	<i>City Code:</i>	2	<i>Fax. Nr.:</i>	8687 180
<i>E-mail:</i>	lozanov@fmi.uni-sofia.bg					

* Refer to the Guide for Applicants, "Glossary of codes" (part IV, page 44) for the relevant codes assigned to countries, which specifies a two letter code for each country. For Kosovo -1244, the code 12 should be used

Reference number: 2 – Grant co-ordinator						
<i>(fill in only if different from above, otherwise, please leave this section blank)</i>						
<i>Title:</i>	Mr.(M)					
<i>First name:</i>	Aleksandar	<i>Surname:</i>	Lipkovski			
<i>Function at organisation:</i>	Professor					
<i>Name of the organisation:</i>	University of Belgrade					
<i>Type of organisation:</i>	University (U)					
<i>Faculty:</i>	Faculty of Mathematics					
<i>Department:</i>						
<i>Country*:</i>	RS	<i>Postal code:</i>	11000			
<i>Town:</i>	Beograd	<i>CEDEX</i>				
<i>Address:</i>	Studentski trg 16					
<i>Phone:</i>	<i>Country code:</i>	381	<i>City Code:</i>	11	<i>Phone Nr.:</i>	2027 853
<i>Fax:</i>	<i>Country code:</i>	381	<i>City Code:</i>	11	<i>Fax. Nr.:</i>	2638 912
<i>E-mail:</i>	acal@matf.bg.ac.yu					

Reference number: 3 – Contact person of consortium member						
<i>Title:</i>	Mr.(M)					
<i>First name:</i>	Gradimir	<i>Surname:</i>	Milovanović			
<i>Function at organisation:</i>	Professor					
<i>Name of the organisation:</i>	University of Niš					
<i>Type of organisation:</i>	University (U)					
<i>Faculty:</i>	Faculty of Electronic Engineering					
<i>Department:</i>						
<i>Country*:</i>	RS	<i>Postal code:</i>	18000			
<i>Town:</i>	Niš	<i>CEDEX</i>				
<i>Address:</i>	Aleksandra Medvedeva 14					
<i>Phone:</i>	<i>Country code:</i>	381	<i>City Code:</i>	18	<i>Phone Nr.:</i>	529 220
<i>Fax:</i>	<i>Country code:</i>	381	<i>City Code:</i>	18	<i>Fax. Nr.:</i>	588 399
<i>E-mail:</i>	grade@junis.ni.ac.yu					

* Refer to the Guide for Applicants, "Glossary of codes" (part IV, page 44) for the relevant codes assigned to countries, which specifies a two letter code for each country. For Kosovo -1244, the code 12 should be used

Reference number: 4 – Contact person of consortium member						
<i>Title:</i>	Mr.(M)					
<i>First name:</i>	Saša Aleksij	<i>Surname:</i>	Glažar			
<i>Function at organisation:</i>	Professor					
<i>Name of the organisation:</i>	University of Ljubljana					
<i>Type of organisation:</i>	University (U)					
<i>Faculty:</i>	Faculty of Education					
<i>Department:</i>						
<i>Country*:</i>	SI	<i>Postal code:</i>	1000			
<i>Town:</i>	Ljubljana	<i>CEDEX</i>				
<i>Address:</i>	Kardeljeva ploščad 16					
<i>Phone:</i>	<i>Country code:</i>	386	<i>City Code:</i>	1	<i>Phone Nr.:</i>	5892 301
<i>Fax:</i>	<i>Country code:</i>	386	<i>City Code:</i>	1	<i>Fax. Nr.:</i>	5892 322
<i>E-mail:</i>	sasa.glazar@guest.arnes.si					

Reference number: 5 – Contact person of consortium member						
<i>Title:</i>	Mr.(M)					
<i>First name:</i>	Milojica	<i>Surname:</i>	Jačimović			
<i>Function at organisation:</i>	Dean, professor					
<i>Name of the organisation:</i>	University of Podgorica					
<i>Type of organisation:</i>	University (U)					
<i>Faculty:</i>	Faculty of Natural Sciences and Mathematics					
<i>Department:</i>						
<i>Country*:</i>	ME	<i>Postal code:</i>	81000			
<i>Town:</i>	Podgorica	<i>CEDEX</i>				
<i>Address:</i>	Cetinjski put bb, PO Box 211					
<i>Phone:</i>	<i>Country code:</i>	381	<i>City Code:</i>	81	<i>Phone Nr.:</i>	245 204
<i>Fax:</i>	<i>Country code:</i>	381	<i>City Code:</i>	81	<i>Fax. Nr.:</i>	244 608
<i>E-mail:</i>	jacimovicm@cg.yu					

* Refer to the Guide for Applicants, "Glossary of codes" (part IV, page 44) for the relevant codes assigned to countries, which specifies a two letter code for each country. For Kosovo -1244, the code 12 should be used

Reference number: 6 – Contact person of consortium member						
<i>Title:</i>	Mr.(M)					
<i>First name:</i>	Ljubomir	<i>Surname:</i>	Protić			
<i>Function at organisation:</i>	Director					
<i>Name of the organisation:</i>	Institute for Advancement of Education					
<i>Type of organisation:</i>	Institution (I)					
<i>Faculty:</i>						
<i>Department:</i>						
<i>Country*:</i>	RS	<i>Postal code:</i>	11000			
<i>Town:</i>	Beograd	<i>CEDEX</i>				
<i>Address:</i>	Fabrisova 10					
<i>Phone:</i>	<i>Country code:</i>	381	<i>City Code:</i>	11	<i>Phone Nr.:</i>	2068 005
<i>Fax:</i>	<i>Country code:</i>	381	<i>City Code:</i>	11	<i>Fax. Nr.:</i>	2068 014
<i>E-mail:</i>	konkurs@zuov.sr.gov.yu					

Reference number: 7 – Contact person of consortium member						
<i>Title:</i>	Mr.(M)					
<i>First name:</i>	Radoš	<i>Surname:</i>	Ljušić			
<i>Function at organisation:</i>	Director					
<i>Name of the organisation:</i>	Institute for School Books					
<i>Type of organisation:</i>	Institution (I)					
<i>Faculty:</i>						
<i>Department:</i>						
<i>Country*:</i>	RS	<i>Postal code:</i>	11000			
<i>Town:</i>	Beograd	<i>CEDEX</i>				
<i>Address:</i>	Obilićev Venac 5					
<i>Phone:</i>	<i>Country code:</i>	381	<i>City Code:</i>	11	<i>Phone Nr.:</i>	638 463
<i>Fax:</i>	<i>Country code:</i>	381	<i>City Code:</i>	11	<i>Fax. Nr.:</i>	635 142
<i>E-mail:</i>	direktor@zavod.co.yu					

* Refer to the Guide for Applicants, "Glossary of codes" (part IV, page 44) for the relevant codes assigned to countries, which specifies a two letter code for each country. For Kosovo -1244, the code 12 should be used

Reference number: 8 – Contact person of consortium member						
<i>Title:</i>	Mr.(M)					
<i>First name:</i>	Borislav	<i>Surname:</i>	Lazarov			
<i>Function at organisation:</i>	senior researcher and professor					
<i>Name of the organisation:</i>	Institute of Mathematics and Informatics, Bulgarian Academy of Science					
<i>Type of organisation:</i>	Institution (I)					
<i>Faculty:</i>						
<i>Department:</i>						
<i>Country*:</i>	BG	<i>Postal code:</i>	1113			
<i>Town:</i>	Sofia	<i>CEDEX</i>				
<i>Address:</i>	8, Acad. G. Bonchev					
<i>Phone:</i>	<i>Country code:</i>	359	<i>City Code:</i>	2	<i>Phone Nr.:</i>	9792 895
<i>Fax:</i>	<i>Country code:</i>	359	<i>City Code:</i>	2	<i>Fax. Nr.:</i>	9713 649
<i>E-mail:</i>	byl@abv.bg					

Reference number: 9 – Contact person of consortium member						
<i>Title:</i>	Mr.(M)					
<i>First name:</i>	Lenni	<i>Surname:</i>	Haapasalo			
<i>Function at organisation:</i>	professor and advisor					
<i>Name of the organisation:</i>	University of Joensuu					
<i>Type of organisation:</i>	University (U)					
<i>Faculty:</i>	Faculty of Education					
<i>Department:</i>	Department of Applied Education					
<i>Country*:</i>	FI	<i>Postal code:</i>	80111			
<i>Town:</i>	Joensuu	<i>CEDEX</i>				
<i>Address:</i>	Tulliportinkatu 1					
<i>Phone:</i>	<i>Country code:</i>	358	<i>City Code:</i>	13	<i>Phone Nr.:</i>	2515243
<i>Fax:</i>	<i>Country code:</i>	358	<i>City Code:</i>	13	<i>Fax. Nr.:</i>	2513564
<i>E-mail:</i>	lenni.haapasalo@joensuu.fi					

* Refer to the Guide for Applicants, "Glossary of codes" (part IV, page 44) for the relevant codes assigned to countries, which specifies a two letter code for each country. For Kosovo -1244, the code 12 should be used

Reference number: 10 – Contact person of consortium member						
<i>Title:</i>	Mrs.(F)					
<i>First name:</i>		<i>Surname:</i>				
<i>Function at organisation:</i>						
<i>Name of the organisation:</i>						
<i>Type of organisation:</i>	<<Click here to select>>					
<i>Faculty:</i>						
<i>Department:</i>						
<i>Country*:</i>		<i>Postal code:</i>				
<i>Town:</i>		<i>CEDEX</i>				
<i>Address:</i>						
<i>Phone:</i>	<i>Country code:</i>		<i>City Code:</i>		<i>Phone Nr.:</i>	
<i>Fax:</i>	<i>Country code:</i>		<i>City Code:</i>		<i>Fax. Nr.:</i>	
<i>E-mail:</i>						

Reference number: 11 – Contact person of consortium member						
<i>Title:</i>	Mrs.(F)					
<i>First name:</i>		<i>Surname:</i>				
<i>Function at organisation:</i>						
<i>Name of the organisation:</i>						
<i>Type of organisation:</i>	<<Click here to select>>					
<i>Faculty:</i>						
<i>Department:</i>						
<i>Country*:</i>		<i>Postal code:</i>				
<i>Town:</i>		<i>CEDEX</i>				
<i>Address:</i>						
<i>Phone:</i>	<i>Country code:</i>		<i>City Code:</i>		<i>Phone Nr.:</i>	
<i>Fax:</i>	<i>Country code:</i>		<i>City Code:</i>		<i>Fax. Nr.:</i>	
<i>E-mail:</i>						

* Refer to the Guide for Applicants, "Glossary of codes" (part IV, page 44) for the relevant codes assigned to countries, which specifies a two letter code for each country. For Kosovo -1244, the code 12 should be used

Reference number: 12 – Contact person of consortium member						
<i>Title:</i>	Mrs.(F)					
<i>First name:</i>		<i>Surname:</i>				
<i>Function at organisation:</i>						
<i>Name of the organisation:</i>						
<i>Type of organisation:</i>	<<Click here to select>>					
<i>Faculty:</i>						
<i>Department:</i>						
<i>Country*:</i>		<i>Postal code:</i>				
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<i>Fax:</i>	<i>Country code:</i>		<i>City Code:</i>		<i>Fax. Nr.:</i>	
<i>E-mail:</i>						

Reference number: 13 – Contact person of consortium member						
<i>Title:</i>	Mrs.(F)					
<i>First name:</i>		<i>Surname:</i>				
<i>Function at organisation:</i>						
<i>Name of the organisation:</i>						
<i>Type of organisation:</i>	<<Click here to select>>					
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<i>E-mail:</i>						

* Refer to the Guide for Applicants, "Glossary of codes" (part IV, page 44) for the relevant codes assigned to countries, which specifies a two letter code for each country. For Kosovo -1244, the code 12 should be used

Reference number: 14 – Contact person of consortium member						
<i>Title:</i>	Mrs.(F)					
<i>First name:</i>		<i>Surname:</i>				
<i>Function at organisation:</i>						
<i>Name of the organisation:</i>						
<i>Type of organisation:</i>	<<Click here to select>>					
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<i>Fax:</i>	<i>Country code:</i>		<i>City Code:</i>		<i>Fax. Nr.:</i>	
<i>E-mail:</i>						

Reference number: 15 – Contact person of consortium member						
<i>Title:</i>	Mrs.(F)					
<i>First name:</i>		<i>Surname:</i>				
<i>Function at organisation:</i>						
<i>Name of the organisation:</i>						
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<i>Fax:</i>	<i>Country code:</i>		<i>City Code:</i>		<i>Fax. Nr.:</i>	
<i>E-mail:</i>						

* Refer to the Guide for Applicants, "Glossary of codes" (part IV, page 44) for the relevant codes assigned to countries, which specifies a two letter code for each country. For Kosovo -1244, the code 12 should be used

Reference number: 16 – Contact person of consortium member						
<i>Title:</i>	Mrs.(F)					
<i>First name:</i>		<i>Surname:</i>				
<i>Function at organisation:</i>						
<i>Name of the organisation:</i>						
<i>Type of organisation:</i>	<<Click here to select>>					
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<i>Fax:</i>	<i>Country code:</i>		<i>City Code:</i>		<i>Fax. Nr.:</i>	
<i>E-mail:</i>						

Reference number: 17 – Contact person of consortium member						
<i>Title:</i>	Mrs.(F)					
<i>First name:</i>		<i>Surname:</i>				
<i>Function at organisation:</i>						
<i>Name of the organisation:</i>						
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* Refer to the Guide for Applicants, "Glossary of codes" (part IV, page 44) for the relevant codes assigned to countries, which specifies a two letter code for each country. For Kosovo -1244, the code 12 should be used

Contact Persons of further Consortium Members
<p><i>Should the number of consortium members exceed 17, please use the following space to add additional members. The following information must be included for each contact person:</i></p> <p><i>Title, first and surname, position at institution, type of organisation, name of institution, name of faculty, name of department, COMPLETE address, Phone, Fax and e-mail.</i></p>

List of proposed individual experts:

Please note that individual experts **cannot come from any of the consortium member organisations**, neither as staff nor as students, as in this case they can be involved in the project directly.

Reference: i – Individual expert (from non-consortium members) proposed for specific tasks in project (CV must be included of a maximum of 2 pages)						
<i>Title:</i>	Mr.(M)					
<i>First name:</i>	Đorđe	<i>Surname:</i>	Kadijević			
<i>Function at organisation:</i>	Researcher					
<i>Name of the organisation:</i>	Megatrend University of applied sciences					
<i>Type of organisation:</i>	University (U)					
<i>Faculty:</i>						
<i>Department:</i>	Institute for New Technology					
<i>Country*:</i>	RS	<i>Postal code:</i>	11000			
<i>Town:</i>	Beograd	<i>CEDEX</i>				
<i>Address:</i>	Makedonska 21					
<i>Phone:</i>	<i>Country code:</i>	381	<i>City Code:</i>	11	<i>Phone Nr.:</i>	3373 796
<i>Fax:</i>	<i>Country code:</i>	381	<i>City Code:</i>	11	<i>Fax Nr.:</i>	3373 796
<i>E-mail:</i>	djk@matf.bg.ac.yu					

Reference: ii – Individual expert (from non-consortium members) proposed for specific tasks in project (CV must be included of a maximum of 2 pages)						
<i>Title:</i>	Mr.(M)					
<i>First name:</i>	Milosav	<i>Surname:</i>	Marjanović			
<i>Function at organisation:</i>	Academician					
<i>Name of the organisation:</i>	Serbian Academy of Sciences and Arts					
<i>Type of organisation:</i>	Institution (I)					
<i>Faculty:</i>						
<i>Department:</i>						
<i>Country*:</i>	RS	<i>Postal code:</i>	11001			
<i>Town:</i>	Beograd	<i>CEDEX</i>				
<i>Address:</i>	Knez Mihailova 35					
<i>Phone:</i>	<i>Country code:</i>	381	<i>City Code:</i>	11	<i>Phone Nr.:</i>	2621 149
<i>Fax:</i>	<i>Country code:</i>	381	<i>City Code:</i>	11	<i>Fax Nr.:</i>	182 825
<i>E-mail:</i>	milomar@beotel.yu					

* Refer to the Guide for Applicants, "Glossary of codes" (part IV, page 44) for the relevant codes assigned to countries, which specifies a two letter code for each country. For Kosovo -1244, the code 12 should be used

Reference: iii – Individual expert (from non-consortium members) proposed for specific tasks in project (CV must be included of a maximum of 2 pages)						
<i>Title:</i>	Mr.(M)					
<i>First name:</i>	Bernd	<i>Surname:</i>	Zimmermann			
<i>Function at organisation:</i>	Professor					
<i>Name of the organisation:</i>	Friedrich-Schiller-University of Jena					
<i>Type of organisation:</i>	University (U)					
<i>Faculty:</i>	Faculty of Mathematics and Computer Science					
<i>Department:</i>	Department of Mathematics and Computer Science Education					
<i>Country*:</i>	DE	<i>Postal code:</i>	D-07743			
<i>Town:</i>	Jena	<i>CEDEX</i>				
<i>Address:</i>	Ernst-Abbe-Platz 1-2					
<i>Phone:</i>	<i>Country code:</i>	49	<i>City Code:</i>	3641	<i>Phone Nr.:</i>	946 250
<i>Fax:</i>	<i>Country code:</i>	49	<i>City Code:</i>	3641	<i>Fax. Nr.:</i>	946 252
<i>E-mail:</i>	bezi@minet.uni-jena.de					

Reference: iv – Individual expert (from non-consortium members) proposed for specific tasks in project (CV must be included of a maximum of 2 pages)						
<i>Title:</i>	Mrs.(F)					
<i>First name:</i>		<i>Surname:</i>				
<i>Function at organisation:</i>						
<i>Name of the organisation:</i>						
<i>Type of organisation:</i>	<<Click here to select>>					
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- Refer to the Guide for Applicants, "Glossary of codes" (part IV, page 44) for the relevant codes assigned to countries, which specifies a two letter code for each country. For Kosovo -1244, the code 12 should be used

List of individual experts
<p>Should the number of individual experts exceed 4, please use the following space to add additional experts. The following information must be included for each contact person:</p> <p>Title, first and surname, function at institution, type of organisation, name of institution, name of faculty, name of department, COMPLETE address, Phone, Fax and e-mail.</p>

SECTION III: PROJECT PARTICULARS

This application form requires a general understanding of the Logical Framework Matrix approach and some familiarity with the vocabulary associated with it. Applicants who have never used the approach are therefore advised to familiarise themselves with it and to consult one of the numerous handbooks available on the subject on the internet.

Applicants should note that each proposal will be assessed on the basis of the elements included in this application only. You can include web site references in your application, but the assessment of your proposal will not be based on additional information found on a website and not contained within the application.

Please follow the guidelines provided in the Tempus Guide for Applicants, Part IV

In section III you are required to provide detailed information on your project in the form of **narrative parts** and accompanying **tables**; the information provided should not be repetitive but **complementary**. In the narrative sections you are expected to describe aspects of your project from a strategic and methodological point of view whereas in the tables you are asked to enter into greater detail in relation to aspects such as expected outcomes, activities, inputs and budgetary requirements.

III.1 BACKGROUND OF THE PROJECT

A maximum of four pages A4

III.1a Partner country/ies problem and needs analysis

In this section you should present the justification behind the project, clearly identifying the specific problems and/or needs on which the proposed project will focus and reasons why these have been selected. Please describe briefly how your project proposal came into being and how it was prepared.

III.1b Presentation of the consortium and external experts

In this section you should explain why the selected consortium members are best suited to participate in the project and describe their particular expertise in relation to the project objectives.

III.2 THE PROJECT

A maximum of four pages A4

Having already identified the problems and needs in Section III.1a, in this narrative part you should describe the project which must be clearly and directly related to the identified problems. You must clearly indicate the working methodologies and processes to be used. Applicants should remember to include details on academic content.

III.3 PROJECT OBJECTIVES, OUTCOMES AND ACTIVITIES (LOGICAL FRAMEWORK MATRIX – LFM)

Please use the model provided. You are expected to complete an LFM (maximum of 2 pages), which represents a synthesis of the project. Details provided in the table should complement the information previously explained in the project narrative (section III.2).

For those identified risks, which are internal to the consortium, such as for example lack of EU language skills of partner country university staff, lack of interest from students, lack of time of university teaching staff, the consortium should foresee and indicate in the application means and activities to counter-act these risks.

III.4 Work plan

A one-page work plan for each project year should be completed. Please create additional work plan tables if further space is needed.

III.1 BACKGROUND OF THE PROJECT

A maximum of four pages A4

III.1a Partner country/ies problem and needs analysis:

Please focus on the needs and constraints (a) in the Partner Country(ies), (b) at the PC higher education institution(s) - if relevant please refer to respective legislation and/or regulations. Your information should be specific to the subject of the proposal.

In its historical development, teacher education in Serbia has undergone various changes. The present situation is the following. Teachers in the first four grades of elementary school (class teachers) obtain their degree at the faculties for teacher training of the university in duration of 8 semesters. Teachers in the second four grades of the elementary school (middle school subject teachers), as well as teachers in the secondary schools (high school teachers) obtain their degree at the subject faculties of the university, also in duration of 8 semesters. After obtaining their degrees and getting their job in schools, and after one-year practical supervised teaching, they have to pass a state examination, covering three main topics: subject area, pedagogical and psychological skills, and legal framework. The system has been efficient for a long time. However, many problems did occur. Various reasons (low share of education in the GNP - around 2%, developments in Serbia in the last 15 years etc.) have led to lowering of the overall education level. This is documented by relatively low results of Serbia and Montenegro in TIMSS analysis (<http://timss.bc.edu/timss2003.html>). Some reasons include disharmony between curricula and syllabi of mathematics and sciences. Others are due to recent legal changes: the new Law on Elementary and Secondary Education was adopted in May 2004, and the new Law on Higher Education was adopted in September 2005. These two laws impose a necessity for revision of the whole teacher training process. Another input is the development of the European Higher Education Area, which includes some amount of standardization of teacher training. Other partner institutions in Serbia share the same problems and expect the same benefits. The partner from Montenegro has moved further on the reform pathway, since their legal framework has changed some time earlier. Their experience can be of big importance to the project. Partner institutions from EU have been selected so that they cover variety of educational systems, thus helping the project to reach the goal of getting closer to educational standards in the EHEA.

The proposed project deals with all problems mentioned above. Its primary goal is to develop new curricula for teacher training in the areas of mathematics and information technology, in accordance with all requirements: harmonization between various subjects, adaptation to the new legal framework, and adaptation to EHEA requirements. Its secondary goal will be the introduction of the IT developments into curricula and syllabi of the education of mathematics and IT teachers. It also includes development of methodical and didactical courses for teacher training in all mentioned areas. Some broader perspective includes also impact on innovation of curricula for training of other teachers (language, social sciences), as well as production of the new tools, including textbooks, program tools etc, and development of programs and courses for the in-service teachers (life long learning concept).

III.1b Presentation of the consortium:

Please focus on the elements which are essential for the project (particular expertise, relevant previous experience and contacts beneficial to the project). In case of involvement of external experts, please make reference to their specific expertise and contribution to the project.

1) Consortium members from Serbia and from Montenegro

University of Belgrade (UB) (www.bg.ac.yu) is one of the oldest high school institution in the Balkans. Established in 1838 as the Great School, in the beginning it had three faculties: philosophy, law and technics. Today, it is the biggest university in Serbia and Montenegro with 31 faculties

covering all areas of science and education, with 78000 students and 5000 teaching staff. All Serbian universities, as well as Montenegrin university and many other universities in the former Yugoslav states (Bosnia and Hercegovina, Macedonia) regard UB as their Alma Mater. UB has all types of undergraduate and graduate studies, and confers doctoral degrees (Ph.D.) in all areas. The area of expertise is very broad, including such distant areas as mathematics, engineering, medicine, agriculture, law. Huge international cooperation of UB covers all continents of the Earth. Elementary school teachers are being educated at the Teacher-Training Faculty, with the corresponding degree of class teacher, and the majority of middle and secondary school teachers are being educated at the Philological, Philosophical, Science and Mathematical Faculties with the corresponding degree of subject teacher. This will play a crucial role for the effects of the project, covering the whole area of Serbia.

University of Niš (UN) (ban.junis.ni.ac.yu) was founded as an independent degree-granting institution in 1965. Its establishment rounded off an important, in many ways pioneering, period in the more recent history of the town which started in 1960 when the first undergraduate programs commenced in Niš under the academic patronage of the UB. The beginning of the third millennium finds the University as a medium-sized, mature and well developed comprehensive university comprising thirteen faculties, of which eleven are located in Niš, one in Leskovac and the Teacher-Training Faculty in Vranje. Most of the mentioned faculties have composite structure, offering wide and diversified study and research opportunities at both the undergraduate and the graduate level, including opportunities to obtain Ph.D. degree. Over the past 41 years, the University teaching staff has grown to more than 1400 and its student body to more than 27000. The faculties for teacher training have quite similar structure and problems as all such faculties in Serbia and Montenegro. They produce approximately one-fifth of the teacher population in Serbia and will play an important role in the project results and dissemination.

University of Montenegro (UM) in Podgorica, its Faculty of Natural Sciences and Mathematics has more than 400 students. The Faculty is a higher education institution, which has celebrated 25 years of its work, and has matured both in terms of teaching and scientific activities. An important step in the development of this Faculty was the establishment of the Department of Biology in 1990. Today the Faculty organises undergraduate and master's studies, and also offers a Ph.D. in the fields of Mathematics and Sciences. The Faculty has intensive cooperation with other universities in Serbia and Montenegro, as well as numerous foreign universities. As UM has started its reforms earlier than Serbian universities, pushed by the law, this faculty was chosen for its experience and possible good practices developed so far in the direction of the project.

Institute for Advancement of Education (IAM) (www.zuov.sr.gov.yu) in Belgrade is founded in 2004 by the Government of Serbia, to function as a professional service for the National Educational Council and the Ministry of Education. IAM encompasses the following organisational units: Center for strategical development, Center for development of programs and textbooks, Center for in-service professional development and Center for professional and art education. IAM is created to play an important role in the improvement of all levels of education in Serbia, and more specifically to improve development strategies in education and to raise the education quality. The participation of this institution in the project will enhance greatly the dissemination of the project results.

Institute for School Books (ISB) (www.zavod.co.yu) in Belgrade is the biggest publishing house in Serbia and in the Balkans by number of published books and their printed copies. The Institute prepares and publishes all necessary school books for elementary and high schools in Serbian language and seven languages of national minorities. The Institute has also university school books in its publishing program and it publishes school readings as well as pedagogy documentation. The 2,300 titles in 15 million printed copies, more than 10,000 authors, the most famous experts in the field of science, culture and art have been realizing this voluminous publishing program. This institution will help in making the project results accessible to a very wide teacher community.

2) Consortium members from the EU

University of Sofia (US) was chosen to be the grant applicant for this project, with its two units important for education in mathematics and IT. First one is Faculty of Mathematics and Informatics, Department of Education (DE). The basic activity of the Department of Education is the training of future teachers in mathematics and informatics. They prepare teachers for secondary school level and high school level (5 - 12 grade). The research of the members of Department is in the fields of: Measurement, evaluation and assessment in education, Information technologies in education, Didactics of mathematics (curriculum development, methods of assessment, methodologies for teacher training), Methods and organization of extracurricular work on mathematics with gifted and talented students from the Junior Secondary School level (10 years old) to the end of the Secondary School. Second one is Department of Information and in-Service Training of Teachers (DIUU). It was founded in 2001. At present, the Department realizes the qualification of teachers and gives the possibility of acquiring teacher's certificate. It provides educational opportunities of the highest quality, organizes and carries out research in the Pedagogical Sciences, covering a broad spectrum of areas ranging from issues related to educational assessment and evaluation to educational management and didactics of specific subjects. The current staff (60 persons) is very well acquainted with European educational programs and standards, which are integrated step-by-step in the qualification and its teaching policy. Special attention is paid to the improvement of the mathematical education by using new interactive technologies and didactical educational materials. DIUU organizes and carries out research in the Pedagogical Sciences, covering a broad spectrum of areas ranging from issues related to educational assessment and evaluation to educational management and didactics of specific subjects.

Bulgarian Academy of Sciences (BAN) Institute of Mathematics and Informatics (IMI) is a research institute as well as an educational center, in the fields of Pure and Applied Mathematics and Informatics as well as their applications to education, science, business, government, industry, etc. The Institute of Mathematics' research projects and programs are further enhanced through frequent visits by distinguished researchers from Bulgaria and abroad. Each year more than 40 of the staff are invited to be visiting professors in world known universities and research centres abroad. Some of the researchers play an important role in training gifted pupils, graduates, etc. for participating in National and International Olympiads and Competitions in Mathematics and Informatics. The role of this partner will be very important due to the expertise of its members.

University of Ljubljana (UL) Faculty of Education, has significant educational traditions, existing since the establishment of the Jesuit College in 1595. It has similar mission as the institutions in Serbia and Montenegro, and experienced similar development and problems in the past in former Socialist Federal Republic of Yugoslavia. They started earlier with modernization of concepts in the education of teachers which will play an important role in the present project. The University of Ljubljana has already established cooperation with one of the consortium members, the University of Montenegro through Tempus JEP project 19099/2004 and this will help a lot in broadening the cooperation activities also in other universities from Serbia.

University of Joensuu (UJO) was established in 1969. It includes six faculties and nine independent units. The University offers undergraduate and graduate degree in eight different fields: education, humanities, natural sciences, social sciences, economics, forestry, theology, and psychology. UJO has over 7200 students, and the staff comprises about 1200 people. Among the strengths of UJO are a multi-disciplinary teacher education program, preparing teachers for all levels of the educational system, research and teaching pertaining to forests, other renewable resources and the environment, and proficiency in the development and application of high technology. UJO is also a recognized centre for research on the social and cultural development of the European peripheral areas and border regions. The Faculty of Education at UJO was founded as the Unit of Educational Sciences in 1973. It is now the academic home of 2,000 students and 150 academic and other staff. The Faculty seeks to train experts in education, learning and training. The work of the Faculty is based on the multifaceted basic training of teachers, special education teachers, and other educational professionals, and on multidisciplinary research and postgraduate education in education, training, learning and

instruction, and counselling. The expertise of this partner will be very important for the project.

4) external experts

Dorđe Kadijević, researcher and professor, is doing his research in the area of education, introducing new technologies in the teaching process and analytic tools such as PISA or TIMSS. He received his PhD from the University of Joensuu, and has good expertise in the education area. His knowledge of the educational system in Finland and his expertise will be very important for the project.

Milosav Marjanović, member of the Serbian Academy of Sciences and Arts, is one of the key actors on the scene of mathematical education in Serbia and also in the international extent. Professor emeritus at the University of Belgrade, Faculty of Mathematics and Teacher Training Faculty, member of the National Council for Education, author of renowned textbooks in mathematics for the elementary school, mathematical and educational expert of the highest rank. The impact of his expertise and personality will be of utmost importance for the project.

Bernd Zimmermann, professor at the University of Jena (www.uni-jena.de) in the Department of education at the Faculty of Mathematics and Computer Science (<http://www.minet.uni-jena.de/~schmitzm/midida/start.html>), has highly estimated experience in education of teachers of mathematics and computer science, as well as introducing new concepts and technology in the teaching process. He is doing research in problemsolving, mathematical heuristics, history of mathematical heuristics and also in creativity in elementary mathematics, mathematical gifted students, mathematical beliefs and philosophy of science and mathematics education. His expertise will have invaluable impact on the project and its outcomes.

III.2 THE PROJECT

A maximum of four pages A4

The project description should correspond to the needs identified and described under III.1a by focussing on the following points: How does your proposal solve/address these needs and constraints? Who is/are the target group/s of your project? Who are the direct/indirect beneficiaries?

The main objective of the project is to develop new revised and updated curricula at teacher training faculties of the University of Belgrade, which are harmonised and recognised within the European Higher Education Area according to Bologna guidelines. The possible good approach and results will be disseminated to consortium members and other Serbian universities, through informative conferences and printed material.

The first phase of the project will start by establishing an electronic communication center and web site at the University of Belgrade. By means of web and e-mail all participants will be connected to it. From this center, all directions and assignments will be distributed and a go-round discussion will be initiated from the very beginning so that the participants could interchange their ideas and be grouped around specific themes of consideration. The phase will start with a strategic two-day meeting of coordinators of all consortium members and individual experts and other experts in Belgrade to analyse the current state of organization and the teaching level in Serbia and at the University of Belgrade in particular, and develop a clear plan for future activities. Three subject workgroups (mathematics and IT for class teachers, mathematics, information technology), as well as three special workgroups (development and integration of mathematical knowledge in the teaching of science, general and subject-oriented methodical and didactical questions, use of information technology in the teaching process), will be defined at this meeting. Their representatives will be assigned the task to spend some time at EU consortium members and study the relevant topics in different ways:

- by interviewing teachers in partner countries, a collection of information will be gathered, showing their opinions about virtues and faults of the education they had at university or other

educational institutions. The teachers should be induced to evaluate their studies and the degree up to which they had been prepared to act on the scene, particularly to have been trained to transpose the knowledge of the subject matter didactically. This data will be then the base of relevance for all possible innovations;

- a survey of existing curricula at educational institutions in all partner countries will be formed and followed by a thorough analysis. Such a survey should also include the ways how the practice is organized for students. This and all other data will be discussed in the preparatory period of the first half of the year of work on this project.

After the first phase, the first conference will be organized and attended by all participants. A number of invited lectures will be scheduled, each being followed by open discussions. Relevant material will be selected and formed as an electronic package (or also in the hard printed form) being accessible to all participants. This package will be then a guide for the further work on this project. It will help sharing knowledge and experience on assessment of problems and needs in teacher education in Serbia, and establish a framework for further work.

The second phase of the project will be the curriculum development itself. In addition to Mathematical Faculty, the Teacher Training Faculty and the Departments of Pedagogy and Psychology of the Philosophical Faculty of the University of Belgrade will be included, as well as corresponding departments from other consortium member representatives from Serbia, Montenegro and EU. The two level study system (bachelor - master) will be defined, the student workload will be balanced and measured in ECTS.

As it is well known, education is more an aggregate than an integration of its different disciplines. An often heard phrase telling about “the existing walls between disciplines” reflects the lack of mutual understanding and coordination of experts of different profile. We do not think, of course, we can solve such a problem. But with regard to some experts that will be engaged to work on this project, one of its main items would be formation of contours of a core course of didactics, integrating the subject matter and the facts related to the way how humans perceive and conceive (psychology, learning theories, etc.).

A widely present practice usually goes to the following to extremes:

- No (or almost no) pedagogical and didactical preparation, what is typical for the faculties where pure science is studied.

- A large number of pedagogical and didactical courses whose contents are hardly relevant for the concrete subject matter, what is typical for the faculties where class school teachers are educated.

Thus, we emphasize as one of the main objectives of our work on this project, the outlining of an integrated course of didactics of elementary school mathematics, IT and early science. This attainment would be particularly important for the institutions where class school teachers are educated.

After the second phase, the second conference will be organized for all participants. Again, a number of invited lectures will be scheduled, followed by discussions. Relevant material will be selected and formed electronically and in the printed form, being accessible to all participants. This package will help to share the results on assessment of problems and proposed solutions in teacher education in Serbia.

In the third phase, submission procedures for the revised program's recognition would start. The activities will start with broad faculty discussions and finish with the approval of new programs by the Faculties' Councils, the Senate of the University of Belgrade and eventually other consortium universities from Serbia and from Montenegro. After that, a legal accreditation procedure will be performed and programs implemented in the everyday teaching process.

The last phase will consist of development of short courses for in-service teachers, in order to disseminate and make the results of the project available to existing teacher community. These courses will be accredited through involvement of consortium member IAM and carried out under the auspices of professional teacher associations.

The project activities will be carried out by:

- central coordinating team (CT), 10 members, consisting of one representative from each consortium member;

- six workgroups (WG 1-6), 5 members each, consisting of representatives from partner universities in mathematics, IT, and PPD (psychology, pedagogy, didactics) from respective faculties (Mathematical Faculty, Teacher Training Faculty, Philosophical Faculty) and individual experts;

- web support team, consisting of two persons responsible for the web and electronic material.

There are few specific landmarks which have to be mentioned about the project.

- The collaboration with the Institute for Advancement of Education and the Institute for School Books. These two state agencies are included in the process of education and collaborate very closely with the Ministry of Education. This will give the opportunity to implement the developed programs and to publish the corresponding textbooks easily;

- There will be a very good collaboration with the National Council for Education which, by the new law, is a strategic decisionmaker in the area of education, superimposed over the Ministry of Education, via the members of the council who are at the same time included in the project;

- There will be a very good cooperation with professional teacher associations (Serbian Mathematical Society and Union of Class Teachers), since the members of the consortium are at the same time in the decision making bodies of these societies.

Due to these specific reasons, there is generally a high expectance of success of the project.

III.3 LOGICAL FRAMEWORK MATRIX – LFM

<p>Wider Objective: <i>What is the overall broader objective, to which the project will contribute?</i></p> <ul style="list-style-type: none"> • Implementation of the new Law on higher education and revision of curricula for teacher education in mathematics and information technology, consistent with EU standards 	<p>Indicators of progress: <i>What are the key indicators related to the wider objectives?</i></p> <ul style="list-style-type: none"> • The quality of newly educated teachers 	<p>How indicators will be measured: <i>What are the sources of information on these indicators?</i></p> <ul style="list-style-type: none"> • Success of their pupils in corresponding subjects - statistical information from the Ministry of education and results of different international evaluation projects (PISA, TIMSS,...) 	
<p>Specific Project Objective/s: <i>What are the specific objective/s, which the project shall achieve?</i></p> <ul style="list-style-type: none"> - Innovation and restructuring of curricula for teacher education in mathematics and information technology - Development of printed materials for teacher education - Updating libraries and classrooms for teacher education in mathematics and information technology - Dissemination of improvements thorough programs for in-service teachers 	<p>Indicators of progress: <i>What are the quantitative and qualitative indicators showing whether and to what extent the project's specific objective/s are achieved?</i></p> <ul style="list-style-type: none"> • New curricula adopted • Review of curricula by experts • Duration of studies in teacher education • New teaching materials and equipment 	<p>How indicators will be measured: <i>What are the sources of information that exist and can be collected? What are the methods required to get this information?</i></p> <ul style="list-style-type: none"> • Information from various universities • Information from the Rectors' conference • Information from the Accreditation commission 	<p>Assumptions & risks: <i>What are the factors and conditions not under the direct control of the project, which are necessary to achieve these objectives? What risks have to be considered?</i></p> <ul style="list-style-type: none"> • There are essential financial restrictions in the system of higher education in Serbia, which may influence the process • The legal framework restrictions may prevent the objectives from being fully implemented
<p>Outputs (tangible) and Outcomes (intangible): <i>Please provide the list of concrete outputs/outcomes leading to the specific objective/s, using bullet points, considering the following questions for their definition: What are the envisaged quantifiable and non-quantifiable effects and benefits of the project? What improvements and changes will be produced by the project?</i></p> <ul style="list-style-type: none"> • 1) Comparative analysis of problems and needs in teacher education in the area of mathematics and IT in Serbia • 2) Development of new curricula in teacher education in the area of mathematics and IT • 3) Implementation of necessary curricular changes • 4) Updating of classroom equipment, 	<p>Indicators of progress: <i>What are the indicators to measure whether and to what extent the project achieves the envisaged results and effects?</i></p> <ul style="list-style-type: none"> • Number of publications for new teacher education • Number of participants in the in-service teacher courses • Number of students in new study programs • Project web-site 	<p>How indicators will be measured: <i>What are the sources of information on these indicators?</i></p> <ul style="list-style-type: none"> • Information from various universities • Information from the Ministry of education • Information from primary and secondary schools • Information from professional teacher's associations • Number of accesses to project web site • Library statistics 	<p>Assumptions & risks: <i>What external factors and conditions must be realised to obtain the expected outcomes and results on schedule?</i></p> <ul style="list-style-type: none"> • Good collaboration with teacher's associations and the Ministry of Education is essential • Financial restrictions in the system of higher education in Serbia may influence the process

<p>libraries and software in the area of mathematics and IT</p> <ul style="list-style-type: none"> • 5) Organization of in-service teacher training • 6) Dissemination and sustainability • 7) Quality control and monitoring • 8) Management and coordination 			
<p>Activities: <i>What are the key activities to be carried out and in what sequence in order to produce the expected results?</i></p> <ul style="list-style-type: none"> • 1.1) CT "kick-off" meeting and formation of WG's • 1.2) Study visits to partner institutions • 1.3) Pre-conference workshop • 1.4) First conference "Problems, needs and proposals on teacher education in the area of mathematics and IT" • 2.1) Selecting and acquiring books, journals and software for libraries • 2.2) Selecting and acquiring hardware equipment for classrooms • 3.1) - 3.6) Workgroups meetings on development of new curricula • 3.7) Pre-conference workshop • 3.8) Second conference "New curricula in teacher education in the area of mathematics and IT" • 4.1) Discussion of the new teacher education curricula in the education-nal community in Serbia • 4.2) Accreditation of the new teacher education curricula in the National Council for Education • 4.3) Implementation of the new curricula in the first and second level university studies in Serbia 	<p>Inputs: <i>What inputs are required to implement these activities, e.g. staff time, equipment, mobilities, publications etc.?</i></p> <ul style="list-style-type: none"> • administrative staff • university staff • books and journals • software • personal computer and lecturing equipment • classroom computer and lecturing equipment • mobilities to/from EU countries • mobilities within Serbia/Montenegro • publication of materials, textbooks, curricula • overheads 		<p>Assumptions, risks and pre-conditions: <i>What pre-conditions are required before the project starts? What conditions outside the project's direct control have to be present for the implementation of the planned activities?</i></p> <ul style="list-style-type: none"> • Good collaboration with other colleague university teachers • Good collaboration with in-service teacher's organizations and the Ministry of Education is essential

<ul style="list-style-type: none"> • 5.1) Development of subject-specific programs and courses for in-service teachers (LLL, e-Learning) • 5.2) Development of pedagogical, psychological and didactical pro-grams and courses for in-service teachers (LLL, e-Learning) • 5.3) Accreditation of programs and courses for in-service teachers • 6.1) Dissemination through the web-site • 6.2) Dissemination through printed materials and textbooks • 6.3) Dissemination through other consortium members in Serbia • 6.4) Dissemination through in-service teacher training courses • 7) Quality control and monitoring • 8.1) Overall administration and management • 8.2) Management and administration through meetings of the CT 			
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III.4 WORKPLAN

Please use the model provided. Applicants are expected to complete a one-page work plan for each project year.

For each year of your project proposal, please complete a work plan indicating the deadlines for each outcome and the period and location in which your activities will take place.

The same reference and sub-reference numbers as used in the logical framework matrix must be assigned to each outcome and related activities.

M1 = first month of the project year; 12 M = 1 year; 4 weeks = 1 M. Please use one symbol (= / X) to represent one week.

WORKPLAN for the first project year

Activities		M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12
Ref. N° /Sub Ref. N°	Title												
1.	Comparative analysis of problems and needs in teacher education in the area of mathematics and IT in Serbia	0					0						
1.1	CT “kick-off” meeting and formation of six WG’s	x											
1.2	Study visits to partner institutions in Serbia, Montenegro and EU		x=	x=	x=	x=							
1.3	Pre-conference workshop on assessment of problems and needs in teacher education in Serbia					x							
1.4	First conference: “Problems, needs and proposals on teacher education in the area of mathematics and IT”						x						
2.	Updating of classroom equipment, libraries and software in the area of mathematics and IT			0									0
2.1	Selecting and acquiring hardware equipment for classrooms			x	x	x	x						
2.2	Selecting and acquiring books, journals and software for libraries						x		x		x		x
3.	Development of new curricula						0						
3.1	WG1 Class teacher’s mathematics and IT						xx	xx	xx	xx	xx	=	
3.2	WG2 Subject teacher’s mathematics						xx	xx	xx	xx	xx	=	
3.3	WG3 Subject teacher’s IT						xx	xx	xx	xx	xx	=	
3.4	WG4 Use of IT in teaching							xx	xx	xx	xx	xx	=
3.5	WG5 Mathematics within other subjects							xx	xx	xx	xx	xx	=
3.6	WG6 General and subject-specific psychological, methodical and didactical training of teachers							xx	xx	xx	xx	xx	=
6.	Dissemination and sustainability	0											
6.1	Through the web-site	xx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx
6.2	Through printed materials and textbooks							x		x		x	
7.	Quality control and monitoring	0x=	x=	x=	x=	x=	x=	x=	x=	x=	x=	x=	x=
8.	Management and coordination	0											
8.1	Overall administration and management	x=	x=	x=	x=	x=	x=	x=	x=	x=	x=	x=	x=
8.2	Meetings of the CT	x		=			x			=			x

WORKPLAN for the second project year

Activities		M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12
Ref. N° /Sub Ref. N°	Title												
3.	Development of new curricula		0										
3.7	Pre-conference workshop on comparative analysis of new curricula	x											
3.8	Second conference: “New curricula in teacher education in the area of mathematics and IT”		x										
4.	Implementation of necessary curricular changes		0						0				
4.1	Discussion of the new teacher education curricula in the educational community in Serbia		xx	xxxx	xx								
4.2	Accreditation of the new teacher education curricula in the National Council for Education				xx	xxxx							
4.3	Implementation of the new curricula in the first and second level university studies in Serbia						xxxx	xxxx	xxxx				
5.	Organization of in-service teacher training			0						0			
5.1	Development of subject-specific programs and courses for in-service teachers (LLL, e-Learning)			xx	xx	xx	xx	xx	=				
5.2	Development of pedagogical, psychological and didactical programs and courses for in-service teachers (LLL, e-Learning)			xx	xx	xx	xx	xx	=				
5.3	Accreditation of programs and courses for in-service teachers								xx	xx			
6.	Dissemination and sustainability												0
6.1	Through the web-site	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx	xxxx
6.2	Through printed materials and textbooks	x		x		x		x		x		x	
6.3	Through other consortium members in Serbia and Montenegro						xx	xx	xx	x	x	x	
6.4	Through in-service teacher training courses									xx	xxxx	xxxx	xxxx
7.	Quality control and monitoring	x=	x=	x=	x=	x=	x=	x=	x=	x=	x=	x=	x=0
8.	Management and coordination												0
8.1	Overall administration and management	x=	x=	x=	x=	x=	x=	x=	x=	x=	x=	x=	x=
8.2	Meetings of the CT			=			x			=			x

Starting and end date of Outcome: **O**
Activity carried out in the EU/Candidate Country: **=**
Activity carried out in the Partner Country (ies): **X**

III.5 OUTCOME & ACTIVITY TABLES

The outcome tables enable you to give precise details on each expected outcome and the related activities. You should also provide details on the resources needed for each outcome. Please create additional tables if further space is needed.

The following types of information will be required:

- Please fill in the same title and reference number for each outcome as provided in the Logical Framework Matrix.
- Please include assumptions and risks for each outcome where relevant.
- Please provide a representative title for each activity together with a sub-reference number, starting and end date.
- An adequate description of each activity; what will be done, when, where and how.
- The consortium member/s or experts who will carry out an activity should be stated, specifying which staff from which of the consortium members will be responsible for and carry out each single activity (e.g.: Senior administrative staff from university A; the rectorate of university B; finance officers from institution C; quality control staff from institution D, etc.). It is not sufficient to merely list some (or all) consortium members.
- For each activity a target group must be clearly identified. A target group is composed of the direct beneficiaries of the activity and could typically include one or more of the following: Academic staff of a given department, university administrative staff, students, trainees participating in a training course. Please quantify your target group and state precisely who they are and where they are located (e.g.: 5 librarians of university A; 20 secondary school teachers, 25 students from the institutions B, C and D; 10 administrators at the Ministry of Education; etc.). This is particularly important for projects in which several Partner Country institutions are involved.
- All the resources (financial, human, material) needed to execute an activity must be described in the “Input” row. The information provided should be specified and itemised. For staff costs please provide information on the kind of staff, where they come from and what the hourly rates are (e.g.: Academic staff from EU institution F x G hours x H Euro). In case of staff and student mobilities, you must indicate the number of people, the direction and duration of each of the mobilities (e.g.: 5 PC staff to EU institution A for B number of weeks). For equipment, you should be as precise as possible on the types of equipment needed for each activity and the number of items (e.g.: 15 computers and 1 network printer).
- For each outcome you should indicate the types of expenditures that will be necessary by filling in the “related costs” table at the end of this section. You should not duplicate expenditure under more than one outcome, as the sum of the total budget required for each outcome should correspond to the totals indicated in Section V, Table 8, ‘Summary of project funding requirements’.
 - ◆ Overheads should be accounted for only once, under the outcomes and activities table for ‘Management of the Project’.

For Dissemination and Sustainability, Quality Control and Monitoring, and Management of the Project, you must also provide a description of the strategy you will adopt.

OUTCOME/OUTPUT AND ACTIVITY TABLES

<i>Outcome/output title:</i>	Comparative analysis of problems and needs in teacher education in the area of mathematics and IT in Serbia		<i>Ref. N°:</i>	1
<i>Starting date:</i>	Month 1 of the 1 st year	<i>End date:</i>	Month 6 of the 1 st year	
<i>Related Assumptions and risks:</i>	Institutional support from consortium members. No risks			

<i>Activity title:</i>	CT “kick-off” meeting and formation of six WG’s		<i>Sub Ref. N°:</i>	1.1
<i>Starting date:</i>	Month 1 of the 1 st year	<i>End date:</i>	Month 1 of the 1 st year	
<i>Description of the activity:</i>	Two-day coordination meeting of the central team in Belgrade, for developing the strategy and the timetable, screening of current situation and exchange of ideas. The six workgroups will be formed and their leaders appointed.			
<i>The consortium member/s or experts who will carry out the activity:</i>	One representative from each consortium member and all individual experts, total of 10 participants			
<i>Target group/s:</i>	Professors from faculties of teacher training, mathematics and philosophy in consortium members from Serbia			
<i>Inputs:</i>	5 experts from EU to Belgrade for 4 days (stay and travel costs) 2 experts from Serbia and Montenegro to Belgrade for 4 days (stay and travel costs) Lunch and refreshments			

<i>Activity title:</i>	Study visits to partner institutions in Serbia, Montenegro and EU		<i>Sub Ref. N°:</i>	1.2
<i>Starting date:</i>	Month 2 of the 1 st year	<i>End date:</i>	Month 5 of the 1 st year	
<i>Description of the activity:</i>	Individual three-day study visits of consortium representatives from Serbia and Montenegro to partner universities in Sofia, Ljubljana, Jena and Joensuu			
<i>The consortium member/s or experts who will carry out the activity:</i>				
<i>Target group/s:</i>	Professors from faculties of teacher training, mathematics and philosophy in consortium members from Serbia			
<i>Inputs:</i>	5 experts from Serbia and Montenegro to EU for 5 days (stay and travel costs)			

<i>Activity title:</i>	Pre-conference workshop on assessment of problems and needs in teacher education in Serbia		<i>Sub Ref. N°:</i>	1.3
<i>Starting date:</i>	Month 5 of the 1 st year	<i>End date:</i>	Month 5 of the 1 st year	
<i>Description of the activity:</i>	One-day workshop in Belgrade, discussing the preparation of the first conference.			
<i>The consortium member/s or experts who will carry out the activity:</i>	3 consortium representatives, 2 experts and 6 leaders of workgroups, in all 11 persons			

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<i>Target group/s:</i>	Professors from faculties of teacher training, mathematics and philosophy in consortium members from Serbia
<i>Inputs:</i>	4 experts from Serbia and Montenegro to Belgrade for 3 days (stay and travel costs) Lunch and refreshments

<i>Activity title:</i>	First conference: “Problems, needs and proposals on teacher education in the area of mathematics and IT”	<i>Sub Ref. N°:</i>	1.4
<i>Starting date:</i>	Month 6 of the 1 st year	<i>End date:</i>	Month 6 of the 1 st year
<i>Description of the activity:</i>	Two-day conference to be held in Niš, announced one month earlier, addressed to the educational community in Serbia		
<i>The consortium member/s or experts who will carry out the activity:</i>	Representatives of all consortium members, external experts, workgroup leaders		
<i>Target group/s:</i>	Professors from faculties of teacher training, mathematics and philosophy in consortium members from Serbia, educational specialists, experienced school teachers		
<i>Inputs:</i>	5 EU expert lecturers for 4 days to Niš (travel and stay) 4 expert lecturers from Serbia and Montenegro to Niš for 4 days (travel and stay) Conference fee Printing, publishing and PR costs Lunch and refreshments Administrative staff support		

RELATED COSTS (for the outcome/output described above)	
<i>Budget Heading</i>	<i>Related Costs in €</i>
<i>Staff Costs</i>	11500
<i>Cost of Stay, Travel Costs, Institutional Costs</i>	51300
<i>Equipment Costs</i>	2000
<i>Printing and Publishing Costs</i>	3000
<i>Other Costs</i>	500
<i>Total Costs</i>	65300

<i>Outcome/output title:</i>	Updating of classroom equipment, libraries and software in the area of mathematics and IT	<i>Ref. N°:</i>	2
<i>Starting date:</i>	Month 3 of the 1 st year	<i>End date:</i>	Month 12 of the 1 st year

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<i>Related Assumptions and risks:</i>	Providing space for the equipment Proper funding
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<i>Activity title:</i>	Selecting and acquiring hardware equipment for classrooms	<i>Sub Ref. N°:</i>	2.1
<i>Starting date:</i>	Month 3 of the 1 st year	<i>End date:</i>	Month 6 of the 1 st year
<i>Description of the activity:</i>	Due to permanent shortage of financial means, the consortium members from Serbia are in constant need of proper contemporary hardware equipment, for various purposes: -office equipment -teaching and classroom equipment -personal computer facilities for professors		
<i>The consortium member/s or experts who will carry out the activity:</i>	UB, UN (faculties for teacher training, mathematics and IT) and IAE		
<i>Target group/s:</i>	Professors and students from faculties of teacher training, mathematics and philosophy in consortium members from Serbia		
<i>Inputs:</i>	3 video beam projectors 30 personal computer systems for IT classrooms 1 digital movie camera 10 laptop computers 1 plasma screen 1,2 meter 2 fax/xerox/printer combinations 2 office color laser printers 1 A3 color laser printer		

<i>Activity title:</i>	Selecting and acquiring books, journals and software for libraries	<i>Sub Ref. N°:</i>	2.2
<i>Starting date:</i>	Month 6 of the 1 st year	<i>End date:</i>	Month 12 of the 1 st year
<i>Description of the activity:</i>	The access to the latest available information is of the utmost importance for the project. This will be achieved by acquisition of teaching, educational and scientific books, periodicals, other educational literature and software. The method of choice will be based on the CT expertise, relying on members from EU		
<i>The consortium member/s or experts who will carry out the activity:</i>	UB, UN (faculties for teacher training, mathematics and IT) and IAE		
<i>Target group/s:</i>	Professors and students from faculties of teacher training, mathematics and philosophy in consortium members from Serbia		
<i>Inputs:</i>	Teaching, educational and scientific books and periodicals Educational and scientific software Various database access		

RELATED COSTS (for the outcome/output described above)	
Budget Heading	Related Costs in €
Staff Costs	1000

<i>Cost of Stay, Travel Costs, Institutional Costs</i>	
<i>Equipment Costs</i>	87000
<i>Printing and Publishing Costs</i>	
<i>Other Costs</i>	500
<i>Total Costs</i>	88500

<i>Outcome/output title:</i>	Development of new curricula		<i>Ref. N°:</i>	3
<i>Starting date:</i>	Month 6 of the 1 st year	<i>End date:</i>	Month 2 of the 2 nd year	
<i>Related Assumptions and risks:</i>	Good coordination between different faculties within UB and UN is essential. There may be shortage of professors interested in curriculum development.			

<i>Activity title:</i>	WG1 Class teacher's mathematics and IT		<i>Sub Ref. N°:</i>	3.1
<i>Starting date:</i>	Month 6 of the 1 st year	<i>End date:</i>	Month 11 of the 1 st year	
<i>Description of the activity:</i>	Several meetings of the workgroup formed in the activity 1.1. Meetings will be held in Belgrade and Niš, within the university facilities. The aim of these meetings will be to analyse the existing curricula in the area of mathematics and IT within class teacher education process, and to develop new one in accordance with standards of the EHEA, including two level studies, ETCS, modular and elective structure.			
<i>The consortium member/s or experts who will carry out the activity:</i>	5 members of the workgroup (UB and UN teacher training faculties, individual experts)			
<i>Target group/s:</i>	Professors and students from faculties of teacher training in consortium members from Serbia			
<i>Inputs:</i>	20 mobilities Belgrade – Niš (travel and stay) Lunch and refreshments			

<i>Activity title:</i>	WG2 Subject teacher's mathematics		<i>Sub Ref. N°:</i>	3.2
<i>Starting date:</i>	Month 6 of the 1 st year	<i>End date:</i>	Month 11 of the 1 st year	
<i>Description of the activity:</i>	Several meetings of the workgroup formed in the activity 1.1. Meetings will be held in Belgrade and Niš, within the university facilities. The aim of these meetings will be to analyse the existing curricula in the area of mathematics within class teacher education process, and to develop new one in accordance with standards of the EHEA, including two level studies, ETCS, modular and elective structure.			
<i>The consortium member/s or experts who will carry out the activity:</i>	5 members of the workgroup (UB and UN mathematical faculties, individual experts)			

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<i>Target group/s:</i>	Professors and students from faculties of mathematics in consortium members from Serbia
<i>Inputs:</i>	20 mobilities Belgrade – Niš (travel and stay) Lunch and refreshments

<i>Activity title:</i>	WG3 Subject teacher's IT	<i>Sub Ref. N°:</i>	3.3
<i>Starting date:</i>	Month 6 of the 1 st year	<i>End date:</i>	Month 11 of the 1 st year
<i>Description of the activity:</i>	Several meetings of the workgroup formed in the activity 1.1. Meetings will be held in Belgrade and Niš, within the university facilities. The aim of these meetings will be to analyse the existing curricula in the area of IT within class teacher education process, and to develop new one in accordance with standards of the EHEA, including two level studies, ETCS, modular and elective structure.		
<i>The consortium member/s or experts who will carry out the activity:</i>	5 members of the workgroup (UB and UN mathematical faculties, individual experts)		
<i>Target group/s:</i>	Professors and students from faculties of mathematics and informatics in consortium members from Serbia		
<i>Inputs:</i>	20 mobilities Belgrade – Niš (travel and stay) Lunch and refreshments		

<i>Activity title:</i>	WG4 Use of IT in teaching	<i>Sub Ref. N°:</i>	3.4
<i>Starting date:</i>	Month 7 of the 1 st year	<i>End date:</i>	Month 12 of the 1 st year
<i>Description of the activity:</i>	Several meetings of the workgroup formed in the activity 1.1. Meetings will be held in Belgrade and Niš, within the university facilities. The aim of these meetings will be to analyse the existing use of IT in teaching process, and to develop new methods and examples in accordance with standards of the EHEA, including two level studies, ETCS, modular and elective structure.		
<i>The consortium member/s or experts who will carry out the activity:</i>	5 members of the workgroup (UB and UN teacher training and mathematical faculties, individual experts)		
<i>Target group/s:</i>	Professors and students from faculties of teacher training, mathematics and informatics in consortium members from Serbia		
<i>Inputs:</i>	20 mobilities Belgrade – Niš (travel and stay) Lunch and refreshments		

<i>Activity title:</i>	WG5 Mathematics within other subjects	<i>Sub Ref. N°:</i>	3.5
<i>Starting date:</i>	Month 7 of the 1 st year	<i>End date:</i>	Month 12 of the 1 st year

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<i>Description of the activity:</i>	Several meetings of the workgroup formed in the activity 1.1. Meetings will be held in Belgrade and Niš, within the university facilities. The aim of these meetings will be to analyse the existing curricula in the area of science and their need in mathematics within class teacher education process, and to develop new methods and examples in accordance with standards of the EHEA, including two level studies, ETCS, modular and elective structure.
<i>The consortium member/s or experts who will carry out the activity:</i>	5 members of the workgroup (UB and UN teacher training, mathematical and science faculties, individual experts)
<i>Target group/s:</i>	Professors and students from faculties of teacher training, mathematics and science in consortium members from Serbia
<i>Inputs:</i>	20 mobilities Belgrade – Niš (travel and stay) Lunch and refreshments

<i>Activity title:</i>	WG6 General and subject-specific psychological, methodical and didactical training of teachers	<i>Sub Ref. N°:</i>	3.6
<i>Starting date:</i>	Month 7 of the 1 st year	<i>End date:</i>	Month 12 of the 1 st year
<i>Description of the activity:</i>	Several meetings of the workgroup formed in the activity 1.1. Meetings will be held in Belgrade and Niš, within the university facilities. The aim of these meetings will be to analyse the existing curricula for class and subject teacher training in the area of mathematics and IT, and to develop new modules in pedagogy, psychology and didactics for these target groups, in accordance with standards of the EHEA, including two level studies, ETCS, modular and elective structure.		
<i>The consortium member/s or experts who will carry out the activity:</i>	5 members of the workgroup (UB and UN teacher training and philosophical faculties, individual experts)		
<i>Target group/s:</i>	Professors and students from teacher training and philosophical faculties in consortium members from Serbia		
<i>Inputs:</i>	20 mobilities Belgrade – Niš (travel and stay) Lunch and refreshments		

<i>Activity title:</i>	Pre-conference workshop on comparative analysis of new curricula	<i>Sub Ref. N°:</i>	3.7
<i>Starting date:</i>	Month 1 of the 2 nd year	<i>End date:</i>	Month 2 of the 2 nd year
<i>Description of the activity:</i>	One-day workshop in Niš, discussing the preparation of the second conference.		
<i>The consortium member/s or experts who will carry out the activity:</i>	3 consortium representatives, 2 experts and 6 leaders of workgroups, in all 11 persons		
<i>Target group/s:</i>	Professors from faculties of teacher training, mathematics and philosophy in consortium members from Serbia		
<i>Inputs:</i>	4 experts from Serbia and Montenegro to Niš for 3 days (stay and travel costs) Lunch and refreshments		

<i>Activity title:</i>	Second conference: “New curricula in teacher education in the area of mathematics and IT”	<i>Sub Ref. N°:</i>	3.8
<i>Starting date:</i>	Month 2 of the 2 nd year	<i>End date:</i>	Month 2 of the 2 nd year
<i>Description of the activity:</i>	Two-day conference to be held in Beograd, announced one month earlier, addressed to the educational community in Serbia		
<i>The consortium member/s or experts who will carry out the activity:</i>	Representatives of all consortium members, external experts, workgroup leaders		
<i>Target group/s:</i>	Professors from faculties of teacher training, mathematics and philosophy in consortium members from Serbia, educational specialists, experienced school teachers		
<i>Inputs:</i>	5 EU expert lecturers for 4 days to Niš (travel and stay) 4 expert lecturers from Serbia and Montenegro to Niš for 4 days (travel and stay) Conference fee Printing, publishing and PR costs Lunch and refreshments Administrative staff support		

RELATED COSTS (for the outcome/output described above)	
Budget Heading	Related Costs in €
<i>Staff Costs</i>	20000
<i>Cost of Stay, Travel Costs, Institutional Costs</i>	52000
<i>Equipment Costs</i>	
<i>Printing and Publishing Costs</i>	10000
<i>Other Costs</i>	5500
Total Costs	87500

<i>Outcome/output title:</i>	Implementation of necessary curricular changes	<i>Ref. N°:</i>	4
<i>Starting date:</i>	Month 2 of the 2 nd year	<i>End date:</i>	Month 8 of the 2 nd year
<i>Related Assumptions and risks:</i>	Good collaboration with teachers’ professional organizations, Ministrz of Education and Sports and National Councils for Education is essential. The legal framework restrictions may cause delays for the objectives to be fully implemented		

<i>Activity title:</i>	Discussion of the new teacher education curricula in the educationnal community in Serbia	<i>Sub Ref. N°:</i>	4.1
<i>Starting date:</i>	Month 2 of the 2 nd year	<i>End date:</i>	Month 4 of the 2 nd year

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<i>Description of the activity:</i>	A consortium-mediated discussion of curricular changes in the teacher and high-school community. It will consist of open forums and through the internet. Open forums will be carried out in UB and UN. Discussions will be carried out with the help of professional subject teacher associations and the IAE. Internet panels will be organized in UB
<i>The consortium member/s or experts who will carry out the activity:</i>	UB, UN, IAE
<i>Target group/s:</i>	Professors from faculties of teacher training, mathematics and philosophy in consortium members from Serbia, educational specialists, school teachers
<i>Inputs:</i>	Setting up an internet forum Lunch and refreshments for open forums

<i>Activity title:</i>	Accreditation of the new teacher education curricula in the National Council for Education	<i>Sub Ref. N°:</i>	4.2
<i>Starting date:</i>	Month 4 of the 2 nd year	<i>End date:</i>	Month 5 of the 2 nd year
<i>Description of the activity:</i>	The faculties of UB will prepare new curricula in the official form of study plans and submit it to the Accreditation Committee of the National Council for Higher Education		
<i>The consortium member/s or experts who will carry out the activity:</i>	UB		
<i>Target group/s:</i>	Accreditation Committee of the National Council for Higher Education		
<i>Inputs:</i>	Administration costs Printing costs Accreditation costs		

<i>Activity title:</i>	Implementation of the new curricula in the first and second level university studies in Serbia	<i>Sub Ref. N°:</i>	4.3
<i>Starting date:</i>	Month 6 of the 2 nd year	<i>End date:</i>	Month 8 of the 2 nd year
<i>Description of the activity:</i>	Accredited study plans (activity 4.2) will be implemented in the everyday teaching process of the faculties involved, starting from that school year		
<i>The consortium member/s or experts who will carry out the activity:</i>	UB (faculties for teacher training, mathematics and philosophy)		
<i>Target group/s:</i>	Freshly enrolled students		
<i>Inputs:</i>	Administration costs Printing costs		

RELATED COSTS (for the outcome/output described above)

Budget Heading	Related Costs in €
<i>Staff Costs</i>	2000
<i>Cost of Stay, Travel Costs, Institutional Costs</i>	2000
<i>Equipment Costs</i>	
<i>Printing and Publishing Costs</i>	1000
<i>Other Costs</i>	500
Total Costs	5500

<i>Outcome/output title:</i>	Organization of in-service teacher training		<i>Ref. N°:</i>	5
<i>Starting date:</i>	Month 3 of the 2 nd year	<i>End date:</i>	Month 9 of the 2 nd year	
<i>Related Assumptions and risks:</i>	Good collaboration with teachers' professional organizations, Ministry of Education and Sports and National Councils for Education is essential. The legal framework restrictions may cause delays for the objectives to be fully implemented.			

<i>Activity title:</i>	Development of subject-specific programs and courses for in-service teachers (LLL, e-Learning)		<i>Sub Ref. N°:</i>	5.1
<i>Starting date:</i>	Month 3 of the 2 nd year	<i>End date:</i>	Month 8 of the 2 nd year	
<i>Description of the activity:</i>	Development of the short three-day training courses for in-service teachers in mathematics and IT on the basis of newly adopted curricula. The course plans will be developed in the course of several meetings of the corresponding WG's and discussed during short two-day stays in EU.			
<i>The consortium member/s or experts who will carry out the activity:</i>	One representative of each consortium member from Serbia and Montenegro and the leaders of correspondings WG's, representatives of consortium members from EU.			
<i>Target group/s:</i>	In-service teachers in Serbia and Montenegro			
<i>Inputs:</i>	Administrative costs Printing costs Equipment costs Travel costs 20 mobilities Beograd-Niš (travel and stay costs) 2 experts from Serbia to EU for 4 days (travel and stay costs)			

<i>Activity title:</i>	Development of pedagogical, psychological and didactical programs and courses for in-service teachers (LLL, e-Learning)		<i>Sub Ref. N°:</i>	5.2
<i>Starting date:</i>	Month 3 of the 2 nd year	<i>End date:</i>	Month 8 of the 2 nd year	

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<i>Description of the activity:</i>	Development of the short three-day training PPD (pedagogical, psychological, didactical) courses for in-service teachers on the basis of newly adopted curricula. The course plans will be developed in the course of several meetings of the corresponding WG's and discussed during short two-day stays in EU.
<i>The consortium member/s or experts who will carry out the activity:</i>	One representative of each consortium member from Serbia and Montenegro and the leaders of correspondings WG's, representatives of consortium members from EU.
<i>Target group/s:</i>	In-service teachers in Serbia and Montenegro.
<i>Inputs:</i>	Administrative costs Printing costs Equipment costs Travel costs 20 mobilities Beograd-Niš (travel and stay costs) 2 experts from Serbia to EU for 4 days (travel and stay costs)

<i>Activity title:</i>	Accreditation of programs and courses for in-service teachers	<i>Sub Ref. N°:</i>	5.3
<i>Starting date:</i>	Month 8 of the 2 nd year	<i>End date:</i>	Month 9 of the 2 nd year
<i>Description of the activity:</i>	The developed programs will be accepted by professional teachers' organizations and submitted to the Institute for Advancement of Education which is a legal procedure in Serbia.		
<i>The consortium member/s or experts who will carry out the activity:</i>	UB, UN, IAE		
<i>Target group/s:</i>	In-service teachers in Serbia and Montenegro.		
<i>Inputs:</i>	Administration costs Printing costs Accreditation costs		

RELATED COSTS (for the outcome/output described above)	
Budget Heading	Related Costs in €
<i>Staff Costs</i>	5000
<i>Cost of Stay, Travel Costs, Institutional Costs</i>	12000
<i>Equipment Costs</i>	
<i>Printing and Publishing Costs</i>	2000
<i>Other Costs</i>	500
Total Costs	19500

III.5.1 DISSEMINATION

A maximum of one page A4

Please describe the dissemination strategy the consortium will follow in order to ensure that positive results will be made available both within and outside the Partner Country institutions during the life of the project.

The dissemination strategy of the proposed project focuses on providing information to its main group, which are the HE institutions, their teaching staff and potential students from Serbia. There will be various dissemination procedures: inter-consortium information exchange, broad public information dissemination, information directed to decision-makers in the field of education.

The most useful dissemination facility will be the Internet. The first step for dissemination of the project will be the preparation and constant maintenance of the project web site. The Internet will be used through carefully maintained homepage, which will contain full information about all activities and outcomes in the project and all other outcomes. This service will be addressed to a wider public in the region as well as to all interested persons all over the world.

An important dissemination source will be printed work. Printed materials will be distributed through cooperation with the ISB, which is the biggest, state-owned Serbian publisher in the area of school and university textbook publishing.

One important dissemination strategy will be the courses for in-service teachers, developed within the activity 5.1 and 5.2, and organized through professional teachers' associations.

Dissemination will also be directed towards the UM in Podgorica, as consortium members.

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<i>Outcome/output title:</i>	DISSEMINATION		<i>Ref. N°:</i>	6
<i>Starting date:</i>	Month 1 of the 1 st year	<i>End date:</i>	Month 12 of the 2 nd year	
<i>Related Assumptions and risks:</i>	The ISB will publish all developed materials in scheduled time. No risks			

<i>Activity title:</i>	Dissemination through the web-site		<i>Sub Ref. N°:</i>	6.1
<i>Starting date:</i>	Month 1 of the 1 st year	<i>End date:</i>	Month 12 of the 2 nd year	
<i>Description of the activity:</i>	An internet interactive site will be established at the very beginning. Through that site communication with external experts and public will be performed. The peak of this activity is expected during activity 4.1.			
<i>The consortium member/s or experts who will carry out the activity:</i>	Information centers of UB, UN and IAE			
<i>Target group/s:</i>	In-service teachers, potential and active students, researchers in education, wider public			
<i>Inputs:</i>	Equipment costs – web server Administrative costs One permanent site administrator			

<i>Activity title:</i>	Dissemination through printed materials and textbooks		<i>Sub Ref. N°:</i>	6.2
<i>Starting date:</i>	Month 7 of the 1 st year	<i>End date:</i>	Month 11 of the 2 nd year	
<i>Description of the activity:</i>	During their activity, WG's will produce printed materials for dissemination of their results. Also, the two conferences (activities 1.4 and 3.8) will produce printed materials which will be published. The participants in the conferences will publish their results in research and educational journals. One of such journals is "Teaching of Mathematics", the representative of UB and external expert being the member of the editorial board and the editor respectively. After the development of in-teacher training activities (no. 5.1 and 5.2) the materials will be published by IAE. The participants in the development of the PPD activities (no. 3.6) will prepare corresponding textbooks and coursebooks, which will be published by ISB.			
<i>The consortium member/s or experts who will carry out the activity:</i>	UB, IAE, ISB			
<i>Target group/s:</i>	In-service teachers, potential and active students, researchers in education, wider public			
<i>Inputs:</i>	Printing costs Advertising and postal costs			

<i>Activity title:</i>	Dissemination through other consortium members in Serbia and Montenegro		<i>Sub Ref. N°:</i>	6.3
<i>Starting date:</i>	Month 6 of the 2 nd year	<i>End date:</i>	Month 11 of the 2 nd year	
<i>Description of the activity:</i>	The consortium members from Serbia and Montenegro will use printed materials and the web site to promote the accepted curricular changes and implement them in their own area.			

<i>The consortium member/s or experts who will carry out the activity:</i>	UB, UN, UM
<i>Target group/s:</i>	In-service teachers, potential and active students, researchers in education, wider public
<i>Inputs:</i>	Printing costs Advertising and postal costs 2 mobilities Belgrade-Niš for 3 days (travel and stay) 2 mobilities Belgrade-Podgorica for 3 days (travel and stay) 2 mobilities Niš-Podgorica for 3 days (travel and stay)

<i>Activity title:</i>	Dissemination through in-service teacher training courses	<i>Sub Ref. N°:</i>	6.4
<i>Starting date:</i>	Month 9 of the 2 nd year	<i>End date:</i>	Month 12 of the 2 nd year
<i>Description of the activity:</i>	Important dissemination strategy will be courses for in-service teachers, developed within the activity 5.1 and 5.2, and organized through professional teachers' associations.		
<i>The consortium member/s or experts who will carry out the activity:</i>	UB, UN, IAE		
<i>Target group/s:</i>	In-service teachers, potential and active students, researchers in education, wider public		
<i>Inputs:</i>	Printing costs Advertising and postal costs Course fees		

<i>COSTS RELATED TO DISSEMINATION</i>	
<i>Budget Heading</i>	<i>Related Costs in €</i>
<i>Staff Costs</i>	3000
<i>Cost of Stay and Travel Costs</i>	3000
<i>Equipment Costs</i>	
<i>Printing and Publishing Costs</i>	1500
<i>Other Costs</i>	500
<i>Total Costs</i>	8000

III.5.2 SUSTAINABILITY

A maximum of half page A4

In this section applicants should refer to activities that will be organised during the project life time and that will lead to the sustainability of project results after the Tempus financing has ended. Factors that contribute to the sustainability of project results such as the accreditation of the new courses and/or curricula; involvement of the private sector and/or other stake-

holders for future development and planning; future oriented partnerships between universities, guarantee of future financial resources, preparation and/or setting-up of a business plan for the newly established unit/centre, etc;

Please describe the long-term perspective for project results, making particular reference to various aspects such as:

- Financial sustainability (how will activities be financed after the Tempus funding has ended?).
- Institutional sustainability (will structures be established and remain in place so as to allow activities to continue?).
- Sustainability at the policy level where applicable (what will be the structural impact of the project – e.g. will it lead to improved methods, procedures, legislation?)

The participants do hope that the project will lead to well-balanced and composed changes and will improve the education of class and subject teachers in the field of mathematics and information technology in the region, corresponding to changes promoted by the Bologna process leading to formation of EHEA. After the end of the project and the evaluation of its results, Serbian government should include the results in the legislation and support a continuation of this study through other institutions, primarily through the Institute for advancement of education. We hope that this would support changes in other areas of teacher education, as well as other higher education systems.

New generations of students will receive better education, well-adopted to new educational trends. This will provide a permanent source of sustainability of the ideas of this project.

<i>Outcome/output title:</i>	SUSTAINABILITY		<i>Ref. N°:</i>	6
<i>Starting date:</i>	Month 1 of the 1 st year	<i>End date:</i>	Month 12 of the 2 nd year	
<i>Related Assumptions and risks:</i>	Good collaboration with teacher's organizations and the Ministry of Education is essential. The legal framework restrictions may prevent the objectives from being fully implemented. There are essential financial restrictions in the system of higher education in Serbia, which may influence the process, and also possible hesitations within the National Council for Education.			

<i>Activity title:</i>	Sustainability	<i>Sub Ref. N°:</i>	6
<i>Starting date:</i>		<i>End date :</i>	
<i>Description of the activity:</i>	Developing mechanisms for future sustainability of project results.		
<i>The consortium member/s or experts who will carry out the activity:</i>	UB, UN, UP		
<i>Target group/s:</i>	Teachers and students of the universities in Serbia and Montenegro Educational policy makers and other stakeholders		
<i>Inputs:</i>	Existing consortium members' staff and equipment		

<i>COSTS RELATED TO SUSTAINABILITY</i>	
<i>Budget Heading</i>	<i>Related Costs in €</i>
<i>Staff Costs</i>	500
<i>Cost of Stay and Travel Costs</i>	
<i>Equipment Costs</i>	
<i>Printing and Publishing Costs</i>	500
<i>Other Costs</i>	500
<i>Total Costs</i>	1500

III.5.3 QUALITY CONTROL AND MONITORING

A maximum of half page A4

Please use this section to describe your overall internal and external quality control and monitoring strategies/methods by providing information on the following issues: How will the timely achievement of the planned outcomes be demonstrated/measured in an objective and quantifiable way? Which are the adjustment mechanisms foreseen in case the quality differs from the one expected or the outcomes will not be achieved on time? Please describe the concrete evaluation measures and the identified responsible actors. Typical actions could include for example peer reviews, evaluations and external accreditation or inter-Tempus project coaching.

Quality control and monitoring will be achieved through various procedures and will be performed continuously throughout the whole duration of the project.. The main policy guidelines will be accepted and controlled by the National council for Higher Education. Changes in the school curricula will be accepted and controlled by the National Educational Council. The EU consortium members will also monitor the development of the project, and all aspects of the implementation (ECTS, PPD outcomes, etc.). The board of coordinators will arrange for peer reviews from the EU partner universities The outcomes will be compared with EU counterparts, taking into account the specific conditions and needs of Serbia..

<i>Outcome/output title:</i>	QUALITY CONTROL AND MONITORING		<i>Ref. N°:</i>	7
<i>Starting date:</i>	Month 1 of the 1 st year	<i>End date:</i>	Month 12 of the 2 nd year	
<i>Related Assumptions and risks:</i>	Good cooperation between the consortium members			

<i>Activity title:</i>	Quality control			
<i>Ref. No. of outcome/s to be assessed:</i>	1, 2, 3, 4, 5			
<i>Starting date:</i>	Month 1 of the 1 st year	<i>End date:</i>	Month 12 of the 2 nd year	
<i>Indicators of progress:</i>	Accomplishment of the proposed workplan in detail, step by step, according to LFM			
<i>How the indicators will be assessed:</i>	Quality of proposed solutions will be assessed by peer review from EU partner universities.			
<i>Consortium member/s or experts who will carry out the assessment:</i>	CT, additional experts from EU partner universities			
<i>Inputs:</i>	Administrative costs			

<i>Activity title:</i>	Monitoring			
<i>Ref. No. of outcome/s to be assessed:</i>	1, 2, 3, 4, 5, 6			
<i>Starting date:</i>	Month 1 of the 1 st year	<i>End date:</i>	Month 12 of the 2 nd year	
<i>Indicators of progress:</i>	Accomplishment of the proposed workplan in detail, according to LFM			
<i>How the indicators will be assessed:</i>	By the percent of the realisation of proposed activities, by the registered number of visits on the project web site, by the number of books distributed, by the number of trained in-service teachers etc. The process will be monitored on a weekly basis for the whole duration of the project.			
<i>Consortium member/s or experts who will carry out the assessment:</i>	CT			
<i>Inputs:</i>	Administrative costs			

<i>COSTS RELATED TO QUALITY CONTROL AND MONITORING</i>

<i>Budget Heading</i>	<i>Related Costs in €</i>
<i>Staff Costs</i>	5000
<i>Cost of Stay and Travel Costs</i>	500
<i>Equipment Costs</i>	0
<i>Printing and Publishing Costs</i>	500
<i>Other Costs</i>	500
<i>Total Costs</i>	6500

III.5.4 MANAGEMENT OF THE PROJECT

A maximum of one page A4

Please describe the **role and responsibility** within the project of **each** consortium member (from the Partner Country(ies) as well as from the EU) and of individual experts (where appropriate).

Applicants should include an estimation of the tasks that will have to be performed in each project year in order to guarantee effective and efficient project management. This section should also make reference to human resource hours for tasks related to project management.

In addition, you should explain how the overall project management will be implemented making specific reference to the management structure in the Partner Country/ies, how decisions will be taken (reference should be made to decision-making mechanisms/bodies and their roles in case of divergent opinions) and how the consortium proposes to ensure permanent and effective communication and reporting.

The management will be carried out mainly by the contractor and the coordinator institutions (US and UB). The main responsibilities are already described in the project section. Generally, the EU universities will assist and actively participate in the curriculum development process.

The contractor institution US will be responsible for the distribution of finances, provide expertise in the European policy in education and pedagogical view of education. The contractor will monitor project activities and control the realisation of the plan.

The DE, FI and SI institutions and experts will be involved in creating and discussing curricula for all subjects. One permanent secretary and two academics from UB, as well as technical and academic support from US will be running the project and organising all activities. During the periods of meetings and conferences, local university administrative staff will be used.

The main managing team will be the CT. Its role will be to harmonize activities 1 to 6, to coordinate WG's activities. In this respect, it will hold regular quarterly meetings, in the EU and in Serbia. It will also keep permanent contact through electronic means of communication.

<i>Outcome/output title:</i>	MANAGEMENT OF THE PROJECT		<i>Ref. N°:</i>	8
<i>Starting date:</i>	Month 1 of the 1 st year	<i>End date:</i>	Month 12 of the 2 nd year	
<i>Related Assumptions and risks:</i>	Well organized and functioning communication between consortium members. Possible problems with hiring of permanent administrative secretary. No risks.			

<i>Activity title:</i>	Overall administration and management		<i>Sub Ref. N°:</i>	8.1
<i>Starting date:</i>	Month 1 of the 1 st year	<i>End date:</i>	Month 12 of the 2 nd year	
<i>Description of the activity:</i>	Management of the whole process through permanent, weekly based insight and planning of the forthcoming tasks according to the proposed workplan			
<i>The consortium member/s or experts who will carry out the activity:</i>	UB, US			
<i>Target group/s:</i>	Members of the consortium, CT, WG's			
<i>Inputs:</i>	One permanent secretary Administrative costs Communication costs			

<i>Activity title:</i>	Meetings of the Central Team		<i>Sub Ref. N°:</i>	8.2
<i>Starting date:</i>	Month 1 of the 1 st year	<i>End date:</i>	Month 12 of the 2 nd year	
<i>Description of the activity:</i>	Meetings of the CT will - coordinate activities in Serbia and EU - organize the WG's and their meetings - organize the acquisition of the equipment and books (outcome 2) - organize workshops and conferences (activities 1.3, 1.4, 3.7, 3.8)			
<i>The consortium member/s or experts who will carry out the activity:</i>	All members of the consortium			
<i>Target group/s:</i>	Members of the consortium, CT			
<i>Inputs:</i>	5 mobilities from EU to Serbia for 3 days (travel and stay costs) 4 mobilities from Serbia to EU for 3 days (travel and stay costs) 4 mobilities from EU to EU for 3 days (travel and stay costs) 20 mobilities Beograd-Niš for 1 day (travel costs)			

COSTS RELATED TO THE MANAGEMENT OF THE PROJECT	
<i>Budget Heading</i>	<i>Related Costs in €</i>
<i>Staff Costs</i>	3000
<i>Cost of Stay and Travel Costs</i>	3000

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<i>Equipment Costs</i>	
<i>Printing and Publishing Costs</i>	1000
<i>Other Costs</i>	500
<i>Overheads</i>	10000
<i>Total Costs</i>	17500

SECTION IV: SUMMARY OF THE PROJECT

A summary of the project must be provided in English, French or German and may be included in future Tempus publications. This summary should be a snapshot and should include the main features of your project. Please make sure that the information you provide in this section is consistent with the Logical Framework Matrix.

<p>Outputs and Outcomes: (as in LFM)</p>	<ol style="list-style-type: none"> 1) Comparative analysis of problems and needs in teacher education in the area of mathematics and IT in Serbia 2) Development of new curricula in teacher education in the area of mathematics and IT 3) Implementation of necessary curricular changes 4) Updating of classroom equipment, libraries and software in the area of mathematics and IT 5) Organization of in-service teacher training 6) Dissemination and sustainability 7) Quality control and monitoring 8) Management and coordination
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Summary of the Main Features of the Project:
<p>There will be following phases to the project and corresponding benefits to the society.</p> <p>First, the assesment of the situation in Serbia on one, and in the EU countries on the other side, by means of mobility, internet and other ways of exchange.</p> <p>Second, the central phase - the curriculum development itself, in subjects and inter-subject areas of mathematics and information technology, as well as pedagogical, psychological and didactical aspects of teaching. The curriculum development will have the main goal to make the curricula consistent with the EHEA mainstream, taking into account the recommendations of the EU partners, including two-cycle studies (bachelor - master), development of well balanced ECTS scheme, and modular and elective course structure.</p> <p>Third, the implementation of developed curricula through a legal process determined by law and various bylaws. The curricula will be accepted by respective universities and introduced in the regular study process.</p> <p>Fourth, the development of corresponding teaching materials such as textbooks, tests etc. These materials can be used in all partner universities, and will certainly be used in Serbia, through ISB as consortium member.</p> <p>Fifth, the development of programs for in-service school teachers in the vein of the developed curricula. These programs will be accredited and implemented through professional teachers' societies and IAE as consortium member.</p> <p>Imprtant beneficiaries of the project are students studying for class teacher or subject teacher degree in mathematics and infoprnation technology, as well as the existing teachers and primary and secondary schools in Serbia. This means that the society at large will benefit.</p>
Quantitative data concerning the training of target groups involved in your project

Number of teaching staff trained or retrained	30
Number of trainers trained	
Number of trainees trained	100
Number of administrative staff trained or retrained	3
Number of students involved or trained	6

Please tick the relevant boxes indicating which of these elements are covered by your project:	
Bologna Process	Yes
Adoption of a system of easily readable and comparable degrees	Yes
Diploma supplement	Yes
Adoption of a system based on two main cycles, undergraduate (bachelor) and post-graduate (Master or doctorate)	Yes
Establishment of a system of ECTS to promote student mobility	Yes
Promotion of European co-operation in Quality Assurance	Yes
Promotion of the necessary <i>European dimensions</i> in higher education	Yes
<i>Lifelong learning</i> as an essential element of the European Higher Education area	Yes
Promoting the attractiveness of the European Higher Education Area	Yes
Other credit systems	No
Modular structure of curriculum	Yes
Quality Assurance	Yes
e-Learning	Yes
University/Enterprise co-operation	No
Links to the labour market in degree programmes	No
Links with other EU education programmes	Yes
Set up of project website	Yes
Qualification frameworks	Yes
Teacher training	
Language	No
IT skills	Yes
Social and intercultural skills	No
Links with VET in	
Adult training	No
Non-formal and informal education	No
Active citizenship	No
Occupational guidance and counselling	No

SECTION V: FUNDING REQUIREMENTS

In tables 1 to 6 you are asked to provide estimates of the Tempus grant you would require to carry out your project (95% of the project costs). Please complete the tables you will find below, assigning costs to the headings Staff costs, Travel costs and costs of stay for staff and students, Equipment costs, Printing & Publishing costs, Other Costs and Overheads.

In Table 7 you are asked to provide a detailed estimation on the amount to be co-financed by the consortium members, which should at least equal 5% of the eligible project costs.

Finally, table 8 presents the summary of the previous tables and will be aggregated automatically from the data you provided. Please note that below the summary table messages will appear, informing you about the compliance with the ceilings outlined in the Guide for Applicants.

Applicants should note that tables 1-6 only refer to the **Tempus grant** and not the overall **project costs**.

Applicants should also note that the **Tempus grant** consists of the operational costs (tables 1-5) and of overhead costs (table 6), which can be allocated up to a flat rate of 7% of the operational costs; whereas the **project costs** consist of the total amount needed for the implementation and realisation of the project and is composed of the Tempus grant plus the co-financing (tables 1-7).

A Tempus grant may co-finance **up to 95%** of the eligible costs of a project. The maximum grant for any project may not exceed:

- **€300,000 for a project lasting, in principle, 2 years..**

These are **maximum** amounts and any budget plan should demonstrate its consistency with the details of the project description. All amounts must be expressed in Euro (€).

The following ceilings should be applied:

- Staff costs: maximum 30% of the Tempus grant;
- Equipment: maximum 30% of the Tempus grant;
- Overheads / Indirect costs: maximum 7% of the operational costs covered by the Tempus grant.

Applicants should be aware that the non-compliance with the indicated budget ceilings may lead to a lower assessment grade or even the failure of the proposal.

Please do not use any decimals and do not use “thousand separators”. The figure “one thousand” should be indicated with consecutive digits: 1000 and NOT 1,000 or 1.000 or 1 000 or 1000,00

Table 1: Staff costs

the maximum allowed for staff costs is 30% of the Tempus grant

The table below refers to the costs for both the academic and administrative personnel involved in the project.

Please note that local rates must be used. For further details on eligible staff costs please refer to the *Guide for Applicants*.

STAFF COSTS (please specify what type of activity will be covered and provide a quantification in hours for the human resources needed for these activities)*	Amount required from Tempus in €
<i>EU Academic Staff</i>	
1. EU expert consultants 150 hours x 50 € = 7500 € (outcome 1)	1. 7500
2. EU expert lecturers 100 hours x 50 € = 5000 € (outcome 2)	2. 5000
3. EU lecturers and consultants 200 hours x 50 € = 10000 € (outcome 3)	3. 10000
4. EU consultants and experts 50 hours x 50€ = 2500 € (outcome 4)	4. 2500
5. EU consultants and experts 50 hours x 50 € = 2500 € (outcome 5)	5. 2500
6. - (outcome 6)	6. 0
7. 2 experts x 200 hours x 50 € = 2000 € (outcome 7)	7. 2000
8. 1 contractor representative 240 hours x 10 € = 2400 € (outcome 8)	8. 2400
<i>Partner Country Academic Staff</i>	
1. university professors 300 hours x 20 € = 6000 € (outcome 1)	1. 6000
2. university professors 100 hours x 20 € = 2000 € (outcome 2)	2. 2000
3. work group members 30 persons x 10 weeks x 40 € = 12000 € (outcome 3)	3. 12000
4. university professors 150 hours x 20 € = 3000 € (outcome 4)	4. 3000
5. university professors 400 hours x 20 € = 8000 € (outcome 5)	5. 8000
6. 1 coordinator representative 24 months x 100 € = 2400 € (outcome 6)	6. 2400
7. 1 coordinator representative 24 months x 100 € = 2400 € (outcome 7)	7. 2400
8. 1 coordinator representative 24 months x 100 € = 2400 € (outcome 8)	8. 2400
<i>EU Administrative Staff</i>	
1. 1 person x 24 months x 500 € = 12000 € (all outcomes)	1. 12000
<i>Partner Country Administrative Staff</i>	
1. 1 person x 24 months x 250 € = 6000 € (all outcomes)	1. 6000
TOTAL STAFF COSTS:	88100

* (Please provide specific calculations, e.g.: Lecturers of Partner Country Universities A and B x X number of hours x Y Euro per hour equals Z, etc.

Table 2: Costs of Stay, Travel Costs, Institutional costs

For maximum costs of stay, please refer to the Guide for Applicants, Part IV pages 15 to 19. The consortium should additionally calculate estimated travel costs and should request the total for both costs of stay and travel.

Please indicate in this table which mobilities are planned throughout the whole project duration

Staff/trainees

Direction		Number of flows*	Total costs of stay + Travel costs required from Tempus (€)
From	To		
Partner Country	EU/Candidate Country	60	60000
EU/Candidate Country**	Partner Country	20	20000
EU	EU	10	8000
Partner Country	Partner Country	10	1500
Within a Partner Country		40	6000
Total:			95500

Students (only in the framework of Curriculum Development and University Management projects)

Direction		Number of flows*	Total costs of stay + Travel costs + Institutional costs*** required from Tempus (€)
From	To		
Partner Country	EU	6	6000
EU	Partner Country		
Partner Country	Partner Country		
Within a Partner Country			
Total:			6000

Institutional costs

Flows to EU institutions:	A maximum of € 500 per student for a study period of 3 to 5 months A maximum of € 1000 per student for a study period of 6 to 12 months
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Flows to Partner Country institutions:	A maximum of € 200 per student for a study period of 3 to 5 months A maximum of € 400 per student for a study period of 6 to 12 months
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- * Please note that one flow=one journey. In the case of group travel, each person should be considered as an individual flow (5 staff travelling to the same project meeting = 5 flows). Should an individual carry out several visits, each visit should be considered as 1 flow (Prof X participating in 3 coordination meetings abroad = 3 flows).
- ** In this direction Tempus funds may only be used for mobilities of EU consortium members and/or EU individual experts or of individual experts from Candidate Countries travelling to Partner Countries.
- *** Institutional costs are eligible for “student study periods” abroad only.

Table 3: Equipment costs

the maximum allowed for equipment costs is 30% of the Tempus grant

Here you should detail and quantify items of equipment needed for the activities, listed clearly by the partner country university/ies at which each item will be installed.

You should ensure that these details correspond to those given in the Outcome Tables. Please remember that only partner country universities may benefit from equipment funding.

LIST OF EQUIPMENT	Beneficiary university/ies	Amount required from Tempus in €
1. 3 video beam projectors	1. UB, UN	1. 4500
2. 30 personal computer systems for IT classrooms	2. UB, UN	2. 30000
3. 1 digital movie camera	3. UB	3. 2500
4. 10 laptop computers	4. UB, UN	4. 20000
5. 1 plasma screen 1,2 meter	5. UB	5. 2000
6. 2 fax/xerox/printer combinations	6. UB, UN	6. 3000
7. 2 office color laser printers	7. UB, UN	7. 10000
8. 1 A3 color laser printer	8. UB, UN	8. 5000
9. educational and other software	9. UB, UN	9. 5000
10. textbooks and periodicals	10. UB, UN	10. 5000
	TOTAL EQUIPMENT COSTS	87000

Table 4: Printing and Publishing costs

Please estimate the amount you would require to cover printing and publishing costs and give details on the type of material.

TYPE OF PUBLICATION AND N° OF COPIES (indicative)	Amount required from Tempus in €
1. materials for WG's (100)	1. 300
2. materials for workshops (100)	2. 300
3. proceedings of conferences (500)	3. 1500
4. internal correspondence in the consortium	4. 500
5. reports to/from coordinator	5. 500
6. curriculum available to students (1000)	6. 400
TOTAL PRINTING AND PUBLISHING COSTS	3500

Table 5: Other costs

Here you should anticipate any other eligible expenses, which might arise during your project, giving reasons for each item. Expenses listed here must be fully detailed and justified.

EXPENSES (please specify)	REASON (please specify)	Amount required from Tempus in €
1. visa costs	1. RS and ME citizens need visas to EU	1. 1200
2. bank charges	2. transfers are charged	2. 500
TOTAL OTHER COSTS		1700

Table 6: Overheads

the maximum allowed for overheads is 7 % of the operational costs covered by the Tempus grant

Please indicate the amount needed to cover overheads.

OVERHEADS (please specify)	Amount required from Tempus in €
1. courier service	1. 1000
2. office material	2. 5000
3. telephone charges	3. 5000
4. various unpredictable charges	4. 7000
TOTAL OVERHEADS	18000

Table 7: Summary of project co-financing requirements

Applicants should specify through which resources (their own, from other EU Institutions or EU Member States, other organisations) they intend to co-finance the project, on which basis the co-financing has been calculated and what the amount to be co-financed is likely to cover. As the co-financing is an additional heading, expenses that have been declared in any of the previous financial tables covering the Tempus grant (tables 1-6) cannot be declared under co-financing again.

Applicants should note that overheads/indirect costs, the costs of premises (purchase, rent, heating, maintenance, repairs etc.), the purchase of office and/or classroom furniture and exchange losses do not represent eligible costs and thus may not be declared under the heading co-financing.

Source of CO-FINANCING*	Justification**	Item***	Amount (in €)
1. own resources UB, UN	1. conference refreshments, cleaning materials etc.	1. consumables	1. 5000
2. own resources UB, UN	2. preparation for conferences and meetings	2. staff costs	2. 5000
3. own resources IAE, ISB	3. printed textbooks	3. publications	3. 10000
	TOTAL CO-FINANCED		20000

*(E.g.: EU grant, governmental subvention, organisation/institution's own resources)

** (E.g.: Preparation of training materials= 2 days x 7,5 hours x 3 persons x € 25)

***(E.g: Equipment, staff costs, publications)

Table 8: Summary of project funding requirements

The estimated amounts given for each heading should correspond to the totals in the tables which detail the budget breakdown for each category of expenditure and must be expressed in Euro (€).

In order to have this summary table properly calculated, please alternately tick/un-tick the two tick-boxes below.

PROJECT COSTS	TOTAL
A.1 Staff Costs	€ 88100
A.2 Travel costs, costs of stay and inst. costs	€ 101500
A.3 Equipment	€ 87000
A.4 Printing & publishing	€ 3500
A.5 Other costs	€ 1700
SUBTOTAL (A.1 – A.5)	€281800
A.6 Overheads (up to a flat rate of 7% of the subtotal A.1 – A.5)	€ 18000
A: Total Tempus grant (A.1 – A.6):	€299800
B: Amount to be co-financed by the consortium (constituting of a minimum of 5% of the eligible project costs)	€ 20000
GRAND TOTAL (A+B):	€319800

- Once you have provided the amounts in the detailed financial tables on previous pages, alternately click these two tick-boxes in order to update the totals in the table above and the verification messages below*
- Once you have provided the amounts in the detailed financial tables on previous pages, alternately click these two tick-boxes in order to update the totals in the table above and the verification messages below*

- Staff Costs ceiling of 30% of total Tempus grant is respected
- Equipment Costs ceiling of 30% of total Tempus grant is respected
- Overheads ceiling of 7% of total operational costs covered by Tempus grant is respected
- Total Costs requested from the Tempus programme are within the limits
- Co-financing amount respects the 5% minimum of total project cost (A+B)

I have verified the amounts reported in the summary table above (Table 8 - Summary of project funding requirements) and checked that these comply with the Tempus ceilings and thresholds specified in the Guide for Applicants and restated at the beginning of Section V – Funding Requirements.

In rare cases the settings of the automatic calculation of the above summarising table might not be properly working. Applicants are therefore advised to counter-check their figures, using an excel calculator which can be found on the Tempus website (http://ec.europa.eu/education/programmes/tempus/deadlines_en.html).

Table 9: Breakdown of the Tempus grant

In the table below applicants are asked to provide an overview of the indicative breakdown of the Tempus grant amongst the consortium members.

Name of the institution	Amount in €
University of Sofia (US)	46000
University of Beograd (UB)	97000
University of Niš (UN)	81000
Institute for Advancement of Education (IAE)	5000
Institute for School Books (ISB)	5000
University of Montenegro (UM)	13400
University of Ljubljana (UL)	13400
University of Joensuu (UJO)	14000
Bulgarian Academy of Sciences (BAN)	11000
External experts	14000
Total Tempus Grant (A)	€299800

SECTION VI: ADMINISTRATIVE DOCUMENTS

On the following pages you will find two different forms to be filled out concerning the legal status of the applicant – the so-called "Legal Entities" forms:

- (1) a form for "Public Entities"
- (2) a form for "Private Companies"

Please note that:

"Public Entities" are organisations and institutions whose founding act is based on public law (such as resolution, law, decree or decision etc.),

whereas;

"Private Companies" are not only companies but also organisations and institutions whose founding act is based on private law (such as registration, agreement, contract, declaration of association etc.).

If you are a public organisation or institution please fill in the form "Public Entity".

If you are a private organisation or institution please fill in the form "Private Company" even if you are not a company.

LEGAL ENTITIES

PUBLIC ENTITIES

<i>(Please select from the buttons below or fill in the related fields.)</i>	
TYPE OF COMPANY University	
NGO (Non Governmental Organisation) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
NAME(S) University of Sofia "St. Kliment Ohridski"	
ABBREVIATION US	
OFFICIAL ADDRESS	
POSTAL CODE	P.O. BOX
CITY Sofia	
COUNTRY Bulgaria	
VAT NUMBER	
PLACE OF REGISTRATION	
DATE OF REGISTRATION Day / Month / Year	
REGISTRATION NUMBER	
PHONE	FAX
E-MAIL	
CONTACT PERSON	
THIS "LEGAL ENTITY" FORM SHOULD BE FILLED IN AND RETURNED TOGETHER WITH:	
<ul style="list-style-type: none"> • A copy of the resolution, law, decree or decision establishing the entity in question; • Or, failing that, any other official document attesting the establishment of the entity. 	
DATE NAME AND FUNCTION OF THE AUTHORISED REPRESENTATIVE SIGNATURE	STAMP

LEGAL ENTITIES

PRIVATE COMPANIES

<i>(Please select from the buttons below or fill in the related fields.)</i>	
TYPE OF COMPANY	
NGO (Non Governmental Organisation) <input type="checkbox"/> YES <input type="checkbox"/> NO	
NAME(S)	
ABBREVIATION	
ADDRESS OF THE HEAD OFFICE	
POSTAL CODE	P.O. BOX
CITY	
COUNTRY	
VAT NUMBER	
PLACE OF REGISTRATION	
DATE OF REGISTRATION Day / Month / Year	
REGISTRATION NUMBER	
PHONE	FAX
E-MAIL	
CONTACT PERSON	
THIS “LEGAL ENTITY” FORM SHOULD BE FILLED IN AND RETURNED TOGETHER WITH:	
<ul style="list-style-type: none"> • a copy of any official document (e.g. official gazette, register of companies, etc.) showing the contractor’s name and address and the registration number given to it by the national authorities; • a copy of the vat registration document if applicable and if the vat number does not appear on the official document referred to above. 	
DATE	
SIGNATURE	

FINANCIAL IDENTIFICATION

<i>(To be filled in by the Grant Applicant)</i>	
ACCOUNT HOLDER	
NAME	
ADDRESS	
TOWN / CITY	POSTCODE
CONTACT PERSON	
TELEPHONE	
E-MAIL	
VAT NUMBER	
BANK	
BANK NAME	
BRANCH ADDRESS	
TOWN / CITY	POSTCODE
BANK/BRANCH CODE	
ACCOUNT NUMBER	
SWIFT	
IBAN	
REMARKS:	
BANK STAMP + SIGNATURE of BANK REPRESENTATIVE:	DATE + SIGNATURE of ACCOUNT HOLDER: (Obligatory)

SECTION VII: CHECKLIST

Before submitting your application by e-mail, please make sure that it is complete and tick the boxes accordingly:

1. The <u>Declaration</u> (Section I) is completed	<input checked="" type="checkbox"/>
2. The <u>Legal Entities Form</u> (Section VI) is filled in	<input checked="" type="checkbox"/>
3. The <u>Financial Identification Form</u> (Section VI) is filled in	<input checked="" type="checkbox"/>
4. The <u>Basic data</u> (Section II) on the project is provided	<input checked="" type="checkbox"/>
5. All the <u>consortium members</u> (Section II) are listed and contact persons are indicated	<input checked="" type="checkbox"/>
6. The <u>description</u> of the project covering all questions (Section III) is provided	<input checked="" type="checkbox"/>
7. The <u>project summary sheet</u> (Section IV) is complete	<input checked="" type="checkbox"/>
8. The tables regarding <u>funding requirements</u> (Section V) are complete	<input checked="" type="checkbox"/>

Before submitting the original supporting and administrative documents after receipt of your project registration number, please make sure that they are complete and tick the boxes accordingly:

1. The cover letter indicating the registration number is enclosed.	<input type="checkbox"/>
2. The <u>Declaration</u> (Section I) is signed and stamped or sealed	<input type="checkbox"/>
3. The <u>Legal Entities Form</u> (Section VI) is signed and stamped	<input type="checkbox"/>
4. The <u>Financial Identification Form</u> (Section VI) is signed and stamped	<input type="checkbox"/>
5. The <u>endorsement letters</u> are signed (Section I)	<input type="checkbox"/>
6. The <u>curriculum vitae</u> of the participating expert(s) is/are enclosed.	<input type="checkbox"/>