

# **ANNEX I**

**Description of the action (extracted from project application)**

**Section I List of National Member Entities**

**Section II – Basic Data on the Project**

**Section II – List of Partners**

**Section III – Project Particulars (III.1, 2, 3 & 4).**

A handwritten signature in black ink, appearing to be 'M. Heg' or similar, located at the bottom center of the page.

Agreement number: 144856-TEMPUS-2008-RS-JPGR

# **Annex-1**

Page 1

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Pages 2-9

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Pages 10-45

Direct paste from the Application  
of the very same numbered pages  
(that is why they are not scanned)

Application number: ETF-JP-00348-2008



European Commission

**Tempus IV**

FIRST CALL FOR PROPOSALS N° EAC/04/2008

# **Application Form**

## **Joint Project 2008**

***International Accreditation of Engineering Studies***

***Registration number: Registration number (leave empty)***

***Reception Number: ETF-JP-00348-2008***

**SECTION I: LIST OF NATIONAL MEMBER ENTITIES***To be completed by the Grant Applicant if applicable*

If the applying legal entity is an association/organisation/network of higher education institutions as stipulated in the call for proposals (see 5.1.1 Grant applicants in the Call for Proposals EAC/04/2008) the applicant must fill in the following table for each of its national member entities.

Refer to the Call for Proposals EAC/04/2008, Annex 5, “Glossary of codes” (page 49) for the relevant two letter codes assigned to countries. For Kosovo -1244, the code "12" should be used.

| Reference Number: 1 - National member entity of the applying association/organisation/network |                          |  |              |  |            |  |
|---|--------------------------|--|--------------|--|------------|--|
| Title:  | Mrs.(F)                  |  |              |  |            |  |
| First name:   |                          |  | Surname:     |  |            |  |
| Function at organisation:   |                          |  |              |  |            |  |
| Name of the organisation:   |                          |  |              |  |            |  |
| Type of organisation:   | <<Click here to select>> |  |              |  |            |  |
| Country*:   |                          |  | Postal code: |  |            |  |
| Town:   |                          |  |              |  |            |  |
| Address:  |                          |  |              |  |            |  |
| Phone:  | Country code:            |  | City Code:   |  | Phone Nr.: |  |
| Fax:  | Country code:            |  | City Code:   |  | Fax. Nr.:  |  |
| E-mail:   |                          |  |              |  |            |  |

| Reference Number: 2 - National member entity of the applying association/organisation/network |                          |  |              |  |            |  |
|---|--------------------------|--|--------------|--|------------|--|
| Title:  | Mrs.(F)                  |  |              |  |            |  |
| First name:   |                          |  | Surname:     |  |            |  |
| Function at organisation:   |                          |  |              |  |            |  |
| Name of the organisation:   |                          |  |              |  |            |  |
| Type of organisation:   | <<Click here to select>> |  |              |  |            |  |
| Country*:   |                          |  | Postal code: |  |            |  |
| Town:   |                          |  |              |  |            |  |
| Address:  |                          |  |              |  |            |  |
| Phone:  | Country code:            |  | City Code:   |  | Phone Nr.: |  |
| Fax:  | Country code:            |  | City Code:   |  | Fax. Nr.:  |  |
| E-mail:   |                          |  |              |  |            |  |

\* Refer to the Call for Proposals, Annex 5, “Glossary of codes” (page 49) 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

|  |                          |                     |                   |  |                   |  |
|--|--------------------------|---------------------|-------------------|--|-------------------|--|
| <b>Reference Number: 3 - National member entity of the applying association/organisation/network</b> |                          |                     |                   |  |                   |  |
| <i>Title:</i>  | <b>Mrs.(F)</b>           |                     |                   |  |                   |  |
| <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>Country*:</i>   |                          | <i>Postal code:</i> |                   |  |                   |  |
| <i>Town:</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>   |                          |                     |                   |  |                   |  |

|  |                          |                     |                   |  |                   |  |
|--|--------------------------|---------------------|-------------------|--|-------------------|--|
| <b>Reference Number: 4 - National member entity of the applying association/organisation/network</b> |                          |                     |                   |  |                   |  |
| <i>Title:</i>  | <b>Mrs.(F)</b>           |                     |                   |  |                   |  |
| <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>Country*:</i>   |                          | <i>Postal code:</i> |                   |  |                   |  |
| <i>Town:</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 Call for Proposals, Annex 5, "Glossary of codes" (page 49) 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

|  |                          |                     |                   |  |                   |  |
|--|--------------------------|---------------------|-------------------|--|-------------------|--|
| <b>Reference Number: 5 - National member entity of the applying association/organisation/network</b> |                          |                     |                   |  |                   |  |
| <i>Title:</i>  | <b>Mrs.(F)</b>           |                     |                   |  |                   |  |
| <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>Country*:</i>   |                          | <i>Postal code:</i> |                   |  |                   |  |
| <i>Town:</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>   |                          |                     |                   |  |                   |  |

|  |                          |                     |                   |  |                   |  |
|--|--------------------------|---------------------|-------------------|--|-------------------|--|
| <b>Reference Number: 6 - National member entity of the applying association/organisation/network</b> |                          |                     |                   |  |                   |  |
| <i>Title:</i>  | <b>Mrs.(F)</b>           |                     |                   |  |                   |  |
| <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>Country*:</i>   |                          | <i>Postal code:</i> |                   |  |                   |  |
| <i>Town:</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 Call for Proposals, Annex 5, "Glossary of codes" (page 49) 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

|  |                          |                     |                   |  |                   |  |
|--|--------------------------|---------------------|-------------------|--|-------------------|--|
| <b>Reference Number: 7 - National member entity of the applying association/organisation/network</b> |                          |                     |                   |  |                   |  |
| <i>Title:</i>  | <b>Mrs.(F)</b>           |                     |                   |  |                   |  |
| <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>Country*:</i>   |                          | <i>Postal code:</i> |                   |  |                   |  |
| <i>Town:</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>   |                          |                     |                   |  |                   |  |

|  |                          |                     |                   |  |                   |  |
|--|--------------------------|---------------------|-------------------|--|-------------------|--|
| <b>Reference Number: 8 - National member entity of the applying association/organisation/network</b> |                          |                     |                   |  |                   |  |
| <i>Title:</i>  | <b>Mrs.(F)</b>           |                     |                   |  |                   |  |
| <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>Country*:</i>   |                          | <i>Postal code:</i> |                   |  |                   |  |
| <i>Town:</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 Call for Proposals, Annex 5, "Glossary of codes" (page 49) 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

|  |
|--|
| <b>Contact Persons of additional National Member Entities</b>  |
| <p>Should the list of National Member Entities exceed 8, please use the following space to add additional members. The following information must be included for each contact person:</p> <p>Title, first name and surname, position at institution, type of organisation, name of institution, name of faculty, name of department, COMPLETE address, Phone, Fax and e-mail.</p> |

## **SECTION I: PROFIT AND LOSS ACCOUNTS**

*To be attached by the Grant Applicant if applicable*

If the applying legal entity is not or does not qualify as a public body or is not an international organisation it has to provide its profit and loss accounts together with the balance sheet for the last three financial years for which the accounts have been closed.



## SECTION II: BASIC DATA ON THE PROJECT

- **Title of the project**

The title should be concise and accurate, and should not exceed 50 characters in length. For example: Finance and Administration Training for Civil Servants.

*International Accreditation of Engineering Studies*

- **Acronym of the project**

For example: F.A.T.C.S

I.A.E.S.

- **Type of the project**

Please select from the list below:

**Governance Reform (GR)**

- **Project duration**

Please select from the lists below:

**up to 3 yrs**

- **Specific Objectives of the project**

The overall objective of this project is to enhance the quality and relevance of higher education in engineering area in partner countries and to reach the integration of partner country universities into the European university system by international accreditation of engineering studies.

Strictly aiming to fulfill defined priorities for partner countries (both national and programme-wide, identical priorities numbered 1, 2 and 3), the project has an overall combined objective in three fields:

1. Governance reform (University management and student services) where EU established standards for institution excellence are to be introduced in at least one partner country allowing for international accreditation of such an organized institution. It is to be expected that institutional current management system is to be substantially improved, as well student organization and services, especially towards international recognition and integration in uniform EU education area. This outcome is very important concerning the promotion of quality control culture and criteria needed for further steps.

2. Accreditation process for the institution (step 1) is obligatorily accompanied by Curricular reform (Modernisation of curricula) and this projects targets on at least two pilot projects, both interdisciplinary and already established by EU-partner universities. Partner countries are required to introduce, conduct and modernise appropriate curricula in such a way that this would result in a very concrete outcome - its international accreditation. This will most probably also result in issuing of double (multiple) diploma which would allow partner countries students to be immediately ready for EU labour market.

3. Activities in steps 1 and 2 will naturally have to incorporate Development of partnerships with enterprises, especially concerning EU standards for student internships and mobility, which is extremely important for engineering studies. The lack of more practical approach to studies (in partner country studies, due to weaker industry development, studies are more theoretically oriented, so curricula has to

be modernised also for these reasons) and skill unsufficiency of partner country students (as compared to EU-partners students) has to be significantly improved. This directly contributes to the relation between Higher education and society, since it is expected that EU transfer of know-how will allow for Training courses of national accreditation authorities and staff (current national accreditation rules do not insist on skill praxis too much), as well as for university and faculty leaders in partner countries.

By this project the partner country universities ought to accomplish: 1) Internal quality assurance and enhancement mechanisms based on the best international practice; 2) A new model of flexible curriculum structure taking into account emerging interdisciplinary engineering areas and enabling the recognition of new professional qualifications; 3) Improvement of laboratory, library, learning and teaching facilities as well as development of partnership with enterprises; 4) Improvement of administrative/student services including logistic support for university internationalization, 5) Indispensable curriculum corrections, and 6) International accreditation of at least two study programs with the German ASIIN as a relevant European Accreditation Agency.

• **Partner country/ies involved**

Please tick the relevant box/es:

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

| Eastern Neighbouring Area |                 |                          |                         |
|---------------------------|-----------------|--------------------------|-------------------------|
| <input type="checkbox"/>  | AM – Armenia    | <input type="checkbox"/> | MD – Moldova            |
| <input type="checkbox"/>  | AZ – Azerbaijan | <input type="checkbox"/> | RU – Russian Federation |
| <input type="checkbox"/>  | BY – Belarus    | <input type="checkbox"/> | UA – Ukraine            |
| <input type="checkbox"/>  | GE – Georgia    |                          |                         |

| Southern Neighbouring Area          |              |                          |  |
|-------------------------------------|--------------|--------------------------|--|
| <input type="checkbox"/>            | DZ – Algeria | <input type="checkbox"/> | MA – Morocco   |
| <input checked="" type="checkbox"/> | EG – Egypt   | <input type="checkbox"/> | PS – Territory governed by the Palestinian Authority |
| <input type="checkbox"/>            | IL – Israel  | <input type="checkbox"/> | SY – Syria   |
| <input type="checkbox"/>            | JO – Jordan  | <input type="checkbox"/> | TN – Tunisia   |
| <input type="checkbox"/>            | LB – Lebanon |                          |  |

| Central Asia             |                 |                          |                   |
|--------------------------|-----------------|--------------------------|-------------------|
| <input type="checkbox"/> | KG – Kyrgyzstan | <input type="checkbox"/> | TM – Turkmenistan |
| <input type="checkbox"/> | KZ – Kazakhstan | <input type="checkbox"/> | UZ – Uzbekistan   |
| <input type="checkbox"/> | TJ – Tajikistan |                          |                   |

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:

Until this TEMPUS IV Call, Serbian universities were not eligible to act as Grantholders, but University of Belgrade and University of Kragujevac acted in large number of projects as Project coordinators.

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

- **Subject area code**

Please refer to the Glossary of Codes in Annex 5 the Tempus IV Call for Proposals, EAC/04/2008 in order to find the code for the relevant subject area. Please insert ONE code only:

**520**

**The proposal had already been submitted in a previous call:** **No**

If yes, please provide the registration number:

- 1.
- 2.
- 3.

- **Reference number of previous Tempus projects in which some or all partners have been involved (if any):**

|                  |  |                  |  |                  |
|------------------|--|------------------|--|------------------|
| JEP - 40069 2005 |  | JEP - 17040-2002 |  | JEP – 41029-2006 |
| JEP – 25221-2004 |  | JEP – 41045-2006 |  | JEP – 41101-2006 |
| JEP - 18114-2003 |  | JEP - 41092-2006 |  | JEP – 40104-2005 |

- **Language of application and of future correspondence**

All future correspondence related to your project will be in the language that you choose among English, French or German. Please select from the list below:

**English(E)**

## SECTION II: LIST OF PARTNERS

- Partners involved in the project:

|  |                                      |     |              |           |  |         |
|--|--------------------------------------|-----|--------------|-----------|--|---------|
| <b>Reference number: 0 – Legal representative of the applying legal entity</b><br><i>(same person as listed in the declaration under Ref. nr. 0)</i> |                                      |     |              |           |  |         |
| Title:   | <b>Mr.(M)</b>                        |     |              |           |  |         |
| First name:  | Branko                               |     | Surname:     | Kovacevic |  |         |
| Function at organisation:  | Rector                               |     |              |           |  |         |
| Name of the organisation:  | University of Belgrade               |     |              |           |  |         |
| Type of organisation:  | <b>Higher Education Institution:</b> |     |              |           |  |         |
| Erasmus Univ. Charter N°   |                                      |     |              |           | <b>Compulsory for applying universities from the EU!</b> |         |
| Legal Status:  | <b>Public Sector(PS)</b>             |     |              |           |  |         |
| Faculty:   | Electrical Engineering               |     |              |           |  |         |
| Department:  | Automatic control                    |     |              |           |  |         |
| Country*:  | RS                                   |     | Postal code: | 11000     |  |         |
| Town:  | Belgrade                             |     |              |           |  |         |
| Address:   | Studentski trg 1                     |     |              |           |  |         |
| Phone:   | Country code:                        | 381 | City Code:   | 11        | Phone Nr.:   | 3207401 |
| Fax:   | Country code:                        | 381 | City Code:   | 11        | Fax. Nr.:  | 2638912 |
| E-mail:  | officebu@rect.bg.ac.yu               |     |              |           |  |         |

|  |   |     |              |             |            |         |
|--|---|-----|--------------|-------------|------------|---------|
| <b>Reference number: 1 – Grant applicant</b><br><i>(same person as listed in the declaration under Ref. nr. 1)</i> |   |     |              |             |            |         |
| Title:   | <b>Mr.(M)</b>   |     |              |             |            |         |
| First name:  | Milos   |     | Surname:     | Nedeljkovic |            |         |
| Function at organisation:  | Dean  |     |              |             |            |         |
| Name of the organisation:  | Faculty of Mechanical Engineering, University of Belgrade |     |              |             |            |         |
| Type of organisation:  | <b>Higher Education Institution</b>                       |     |              |             |            |         |
| Legal Status:  | <b>Public Sector(PS)</b>                                  |     |              |             |            |         |
| Faculty:   | Mechanical Engineering                                    |     |              |             |            |         |
| Department:  | Hydraulic Machinery                                       |     |              |             |            |         |
| Country*:  | RS  |     | Postal code: | 11120       |            |         |
| Town:  | Belgrade  |     |              |             |            |         |
| Address:   | Kraljice Marije 16  |     |              |             |            |         |
| Phone:   | Country code:   | 381 | City Code:   | 11          | Phone Nr.: | 3370350 |
| Fax:   | Country code:   | 381 | City Code:   | 11          | Fax. Nr.:  | 3370305 |
| E-mail:  | dekan@mas.bg.ac.yu  |     |              |             |            |         |

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|  |  |     |                     |           |                   |          |
|--|--|-----|---------------------|-----------|-------------------|----------|
| <b>Reference number: 2 – Contact person of partner</b> |  |     |                     |           |                   |          |
| <i>Title:</i>  | <b>Mr.(M)</b>  |     |                     |           |                   |          |
| <i>First name:</i>                                     | Aleksandar   |     | <i>Surname:</i>     | Lipkovski |                   |          |
| <i>Function at organisation:</i>                       | Assistant Minister for Education and Sport                 |     |                     |           |                   |          |
| <i>Name of the organisation:</i>                       | The Ministry of Education and Sport of the Republic Serbia |     |                     |           |                   |          |
| <i>Type of organisation:</i>                           | <b>Public Authority</b>                                    |     |                     |           |                   |          |
| <i>Faculty:</i>  | Mathematics  |     |                     |           |                   |          |
| <i>Department:</i>                                     |  |     |                     |           |                   |          |
| <i>Country*:</i>                                       | RS   |     | <i>Postal code:</i> | 11000     |                   |          |
| <i>Town:</i>   | Belgrade   |     |                     |           |                   |          |
| <i>Address:</i>  | Zahumska 14  |     |                     |           |                   |          |
| <i>Phone:</i>  | <i>Country code:</i>                                       | 381 | <i>City Code:</i>   | 11        | <i>Phone Nr.:</i> | 2401-911 |
| <i>Fax:</i>  | <i>Country code:</i>                                       | 381 | <i>City Code:</i>   | 11        | <i>Fax. Nr.:</i>  | 2401-900 |
| <i>E-mail:</i>   | a.lipkovski@mps.sr.gov.yu                                  |     |                     |           |                   |          |

|  |  |     |                     |           |                   |        |
|--|--|-----|---------------------|-----------|-------------------|--------|
| <b>Reference number: 3 – Contact person of partner</b> |  |     |                     |           |                   |        |
| <i>Title:</i>  | <b>Mr.(M)</b>  |     |                     |           |                   |        |
| <i>First name:</i>                                     | Milan  |     | <i>Surname:</i>     | Matijevic |                   |        |
| <i>Function at organisation:</i>                       | Vice-Dean for International Affairs and Accreditation at Faculty of Mechanical Engineering, University of Kragujevac |     |                     |           |                   |        |
| <i>Name of the organisation:</i>                       | University of Kragujevac   |     |                     |           |                   |        |
| <i>Type of organisation:</i>                           | <b>Higher Education Insitution</b>   |     |                     |           |                   |        |
| <i>Faculty:</i>  | Faculty of Mechanical Engineering  |     |                     |           |                   |        |
| <i>Department:</i>                                     | Applied Mechanics and Automatic Control  |     |                     |           |                   |        |
| <i>Country*:</i>                                       | RS   |     | <i>Postal code:</i> | 34000     |                   |        |
| <i>Town:</i>   | Kragujevac   |     |                     |           |                   |        |
| <i>Address:</i>  | Sestre Janjic 6  |     |                     |           |                   |        |
| <i>Phone:</i>  | <i>Country code:</i>   | 381 | <i>City Code:</i>   | 34        | <i>Phone Nr.:</i> | 335867 |
| <i>Fax:</i>  | <i>Country code:</i>   | 381 | <i>City Code:</i>   | 34        | <i>Fax. Nr.:</i>  | 333192 |
| <i>E-mail:</i>   | matijevic@kg.ac.yu   |     |                     |           |                   |        |

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|  |   |     |                     |         |                   |          |
|--|---|-----|---------------------|---------|-------------------|----------|
| <b>Reference number: 4 – Contact person of partner</b> |   |     |                     |         |                   |          |
| <i>Title:</i>  | <b>Mr.(M)</b>   |     |                     |         |                   |          |
| <i>First name:</i>                                     | Ibrahim   |     | <i>Surname:</i>     | Mansour |                   |          |
| <i>Function at organisation:</i>                       | Dean of Faculty of Material Science and Engineering         |     |                     |         |                   |          |
| <i>Name of the organisation:</i>                       | German University in Cairo                                  |     |                     |         |                   |          |
| <i>Type of organisation:</i>                           | <b>Higher Education Institution</b>                         |     |                     |         |                   |          |
| <i>Faculty:</i>  | Faculty of Material Science and Engineering                 |     |                     |         |                   |          |
| <i>Department:</i>                                     | Material Science  |     |                     |         |                   |          |
| <i>Country*:</i>                                       | EG  |     | <i>Postal code:</i> | 11835   |                   |          |
| <i>Town:</i>   | Cairo   |     |                     |         |                   |          |
| <i>Address:</i>  | New Cairo City - Egypt, Main entrance of Tagamoa, Al khames |     |                     |         |                   |          |
| <i>Phone:</i>  | <i>Country code:</i>  | 002 | <i>City Code:</i>   | 02      | <i>Phone Nr.:</i> | 27589990 |
| <i>Fax:</i>  | <i>Country code:</i>  | 002 | <i>City Code:</i>   | 02      | <i>Fax. Nr.:</i>  | 27581041 |
| <i>E-mail:</i>   | Ibrahim.mansour@guc.edu.eg                                  |     |                     |         |                   |          |

|  |  |     |                     |          |                   |        |
|--|--|-----|---------------------|----------|-------------------|--------|
| <b>Reference number: 5 – Contact person of partner</b> |  |     |                     |          |                   |        |
| <i>Title:</i>  | <b>Mr.(M)</b>  |     |                     |          |                   |        |
| <i>First name:</i>                                     | Zarko  |     | <i>Surname:</i>     | Cojbasic |                   |        |
| <i>Function at organisation:</i>                       | Head of the Control Systems Lab at the MEF and Manager of the IT System of MEF |     |                     |          |                   |        |
| <i>Name of the organisation:</i>                       | Technical University of Munich   |     |                     |          |                   |        |
| <i>Type of organisation:</i>                           | <b>Higher Education Insitution</b>   |     |                     |          |                   |        |
| <i>Faculty:</i>  | Mechanical Engineering Faculty (MEF)   |     |                     |          |                   |        |
| <i>Department:</i>                                     | Department of Mechatronics and Control   |     |                     |          |                   |        |
| <i>Country*:</i>                                       | RS   |     | <i>Postal code:</i> | 18 000   |                   |        |
| <i>Town:</i>   | Nis  |     |                     |          |                   |        |
| <i>Address:</i>  | Aleksandra Medvedeva 14  |     |                     |          |                   |        |
| <i>Phone:</i>  | <i>Country code:</i>   | 381 | <i>City Code:</i>   | 18       | <i>Phone Nr.:</i> | 500606 |
| <i>Fax:</i>  | <i>Country code:</i>   | 381 | <i>City Code:</i>   | 18       | <i>Fax. Nr.:</i>  | 588244 |
| <i>E-mail:</i>   | zcojba@ni.ac.yu  |     |                     |          |                   |        |

\* Refer to the Call for Proposals, Annex 5, "Glossary of codes" (page 49) 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

|  |  |                     |                   |     |                   |         |
|--|--|---------------------|-------------------|-----|-------------------|---------|
| <b>Reference number: 6 – Contact person of partner</b> |  |                     |                   |     |                   |         |
| <i>Title:</i>  | <b>Mr.(M)</b>  |                     |                   |     |                   |         |
| <i>First name:</i>                                     | Iring  | <i>Surname:</i>     | Wasser            |     |                   |         |
| <i>Function at organisation:</i>                       | Managing Director  |                     |                   |     |                   |         |
| <i>Name of the organisation:</i>                       | ASIIN Consult GmbH   |                     |                   |     |                   |         |
| <i>Type of organisation:</i>                           | <b>Other</b>   |                     |                   |     |                   |         |
| <i>Faculty:</i>  | n.a.   |                     |                   |     |                   |         |
| <i>Department:</i>                                     | n.a.   |                     |                   |     |                   |         |
| <i>Country*:</i>                                       | DE   | <i>Postal code:</i> | 40002             |     |                   |         |
| <i>Town:</i>   | Düsseldorf /Postfach 10 11 39, 40002 Düsseldorf (for parcels)/ |                     |                   |     |                   |         |
| <i>Address:</i>  | Robert-Stolz-Str. 5, 40470 Düsseldorf                          |                     |                   |     |                   |         |
| <i>Phone:</i>  | <i>Country code:</i>   | 49                  | <i>City Code:</i> | 211 | <i>Phone Nr.:</i> | 6214667 |
| <i>Fax:</i>  | <i>Country code:</i>   | 49                  | <i>City Code:</i> | 211 | <i>Fax. Nr.:</i>  | 6214125 |
| <i>E-mail:</i>   | gf@asiin.de  |                     |                   |     |                   |         |

|  |                                     |                     |                   |    |                   |           |
|--|-------------------------------------|---------------------|-------------------|----|-------------------|-----------|
| <b>Reference number: 7 – Contact person of partner</b> |                                     |                     |                   |    |                   |           |
| <i>Title:</i>  | <b>Mr.(M)</b>                       |                     |                   |    |                   |           |
| <i>First name:</i>                                     | Mihailo                             | <i>Surname:</i>     | Ristic            |    |                   |           |
| <i>Function at organisation:</i>                       | Senior Lecturer.                    |                     |                   |    |                   |           |
| <i>Name of the organisation:</i>                       | Imperial College London             |                     |                   |    |                   |           |
| <i>Type of organisation:</i>                           | <b>Higher Education Institution</b> |                     |                   |    |                   |           |
| <i>Faculty:</i>  | Engineering                         |                     |                   |    |                   |           |
| <i>Department:</i>                                     | Mechanical Engineering              |                     |                   |    |                   |           |
| <i>Country*:</i>                                       | UK                                  | <i>Postal code:</i> | SW7 2AZ           |    |                   |           |
| <i>Town:</i>   | London                              |                     |                   |    |                   |           |
| <i>Address:</i>  | South Kensington Campus             |                     |                   |    |                   |           |
| <i>Phone:</i>  | <i>Country code:</i>                | 44                  | <i>City Code:</i> | 20 | <i>Phone Nr.:</i> | 7594 7048 |
| <i>Fax:</i>  | <i>Country code:</i>                | 44                  | <i>City Code:</i> | 20 | <i>Fax. Nr.:</i>  | 7594 7238 |
| <i>E-mail:</i>   | m.ristic@imperial.ac.uk             |                     |                   |    |                   |           |

\* Refer to the Call for Proposals, Annex 5, "Glossary of codes" (page 49) 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

|  |   |    |                     |         |                   |          |
|--|---|----|---------------------|---------|-------------------|----------|
| <b>Reference number: 8 – Contact person of partner</b> |   |    |                     |         |                   |          |
| <i>Title:</i>  | <b>Mr.(M)</b>   |    |                     |         |                   |          |
| <i>First name:</i>                                     | Ernst   |    | <i>Surname:</i>     | Rank    |                   |          |
| <i>Function at organisation:</i>                       | Head of Department, former 1.st Prorektor and member of ASIIN council |    |                     |         |                   |          |
| <i>Name of the organisation:</i>                       | Technical University of Munich  |    |                     |         |                   |          |
| <i>Type of organisation:</i>                           | <b>Higher Education Institution</b>                                   |    |                     |         |                   |          |
| <i>Faculty:</i>  | Fakultät für Bauingenieur- und Vermessungswesen                       |    |                     |         |                   |          |
| <i>Department:</i>                                     | Department for Computation in Engineering                             |    |                     |         |                   |          |
| <i>Country*:</i>                                       | DE  |    | <i>Postal code:</i> | D-80290 |                   |          |
| <i>Town:</i>   | Munich  |    |                     |         |                   |          |
| <i>Address:</i>  | Arcisstraße 21  |    |                     |         |                   |          |
| <i>Phone:</i>  | <i>Country code:</i>  | 49 | <i>City Code:</i>   | 89      | <i>Phone Nr.:</i> | 28923047 |
| <i>Fax:</i>  | <i>Country code:</i>  | 49 | <i>City Code:</i>   | 89      | <i>Fax. Nr.:</i>  | 28925051 |
| <i>E-mail:</i>   | bauinf@inf.bv.tum.de  |    |                     |         |                   |          |

|  |   |    |                     |                      |                   |         |
|--|---|----|---------------------|----------------------|-------------------|---------|
| <b>Reference number: 9 – Contact person of partner</b> |   |    |                     |                      |                   |         |
| <i>Title:</i>  | <b>Mr.(M)</b>                                 |    |                     |                      |                   |         |
| <i>First name:</i>                                     | Xavier  |    | <i>Surname:</i>     | Alvarez del Castillo |                   |         |
| <i>Function at organisation:</i>                       | Head of Department, former Pro-Rector         |    |                     |                      |                   |         |
| <i>Name of the organisation:</i>                       | Universitat Politècnica de Catalunya          |    |                     |                      |                   |         |
| <i>Type of organisation:</i>                           | <b>Higher Education Institution</b>           |    |                     |                      |                   |         |
| <i>Faculty:</i>  | Engineering                                   |    |                     |                      |                   |         |
| <i>Department:</i>                                     | Departament d'Enginyeria Mecànica             |    |                     |                      |                   |         |
| <i>Country*:</i>                                       | ES  |    | <i>Postal code:</i> | 11 08222             |                   |         |
| <i>Town:</i>   | Barcelona - Terrassa                          |    |                     |                      |                   |         |
| <i>Address:</i>  | DESPATX 211, SEGONA PLANTA, Edif. 45 C. COLOM |    |                     |                      |                   |         |
| <i>Phone:</i>  | <i>Country code:</i>                          | 34 | <i>City Code:</i>   | 93                   | <i>Phone Nr.:</i> | 7398762 |
| <i>Fax:</i>  | <i>Country code:</i>                          | 34 | <i>City Code:</i>   | 93                   | <i>Fax. Nr.:</i>  | 7398762 |
| <i>E-mail:</i>   | xalvarez@catunesco.upc.edu                    |    |                     |                      |                   |         |

\* Refer to the Call for Proposals, Annex 5, "Glossary of codes" (page 49) 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



|   |   |     |                     |          |                   |           |
|---|---|-----|---------------------|----------|-------------------|-----------|
| <b>Reference number: 10 – Contact person of partner</b> |   |     |                     |          |                   |           |
| <i>Title:</i>   | <b>Mr.(M)</b>                                 |     |                     |          |                   |           |
| <i>First name:</i>                                      | Andrej  |     | <i>Surname:</i>     | Vrbancic |                   |           |
| <i>Function at organisation:</i>                        | Executive director                            |     |                     |          |                   |           |
| <i>Name of the organisation:</i>                        | Robotina d.o.o.                               |     |                     |          |                   |           |
| <i>Type of organisation:</i>                            | <b>Enterprise</b>                             |     |                     |          |                   |           |
| <i>Faculty:</i>   |   |     |                     |          |                   |           |
| <i>Department:</i>                                      |   |     |                     |          |                   |           |
| <i>Country*:</i>  | SL  |     | <i>Postal code:</i> | SI-6240  |                   |           |
| <i>Town:</i>  | Kozina  |     |                     |          |                   |           |
| <i>Address:</i>   | Hrpelje, OIC – Hrpelje 38                     |     |                     |          |                   |           |
| <i>Phone:</i>   | <i>Country code:</i>                          | 386 | <i>City Code:</i>   | (0)5     | <i>Phone Nr.:</i> | 698 20 20 |
| <i>Fax:</i>   | <i>Country code:</i>                          | 386 | <i>City Code:</i>   | (0)5     | <i>Fax. Nr.:</i>  | 689 20 39 |
| <i>E-mail:</i>  | info@robotina.sl; andrej.vrbancic@robotina.sl |     |                     |          |                   |           |

|   |   |     |                     |           |                   |          |
|---|---|-----|---------------------|-----------|-------------------|----------|
| <b>Reference number: 11 – Contact person of partner</b> |   |     |                     |           |                   |          |
| <i>Title:</i>   | <b>Mr.(M)</b>   |     |                     |           |                   |          |
| <i>First name:</i>                                      | Martin  |     | <i>Surname:</i>     | Gabi      |                   |          |
| <i>Function at organisation:</i>                        | Dean of the Faculty of Mechanical Engineering, Head of Institute of Fluid Machinery |     |                     |           |                   |          |
| <i>Name of the organisation:</i>                        | University Karlsruhe (TH)   |     |                     |           |                   |          |
| <i>Type of organisation:</i>                            | <b>Higher Education Instituion</b>  |     |                     |           |                   |          |
| <i>Faculty:</i>   | Faculty of Mechanical Engineering, University Karlsruhe (TH)                        |     |                     |           |                   |          |
| <i>Department:</i>                                      | Institute of Fluid Machinery  |     |                     |           |                   |          |
| <i>Country*:</i>  | DE  |     | <i>Postal code:</i> | D - 76128 |                   |          |
| <i>Town:</i>  | Karlsruhe   |     |                     |           |                   |          |
| <i>Address:</i>   | Kaiserstrasse 12  |     |                     |           |                   |          |
| <i>Phone:</i>   | <i>Country code:</i>  | +49 | <i>City Code:</i>   | 721       | <i>Phone Nr.:</i> | 608 2350 |
| <i>Fax:</i>   | <i>Country code:</i>  | +49 | <i>City Code:</i>   | 721       | <i>Fax. Nr.:</i>  | 608 3529 |
| <i>E-mail:</i>  | fsm@uka.de (Dekan@mach.uni-karlsruhe.de; gabi@ism.uka.de)                           |     |                     |           |                   |          |

\* Refer to the Call for Proposals, Annex 5, "Glossary of codes" (page 49) 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

|   |   |     |                     |            |                   |          |
|---|---|-----|---------------------|------------|-------------------|----------|
| <b>Reference number: 12 – Contact person of partner</b> |   |     |                     |            |                   |          |
| <i>Title:</i>   | <b>Mr.(M)</b>                           |     |                     |            |                   |          |
| <i>First name:</i>                                      | Zeljko                                  |     | <i>Surname:</i>     | Despotovic |                   |          |
| <i>Function at organisation:</i>                        | Ph.D.EE., Research and Development eng. |     |                     |            |                   |          |
| <i>Name of the organisation:</i>                        | Mihajlo Pupin Institute                 |     |                     |            |                   |          |
| <i>Type of organisation:</i>                            | <b>Research Institution</b>             |     |                     |            |                   |          |
| <i>Faculty:</i>   |   |     |                     |            |                   |          |
| <i>Department:</i>                                      | Robotics and Mechatronics               |     |                     |            |                   |          |
| <i>Country*:</i>  | RS                                      |     | <i>Postal code:</i> | 11060      |                   |          |
| <i>Town:</i>  | Belgrade                                |     |                     |            |                   |          |
| <i>Address:</i>   | Volgina 15                              |     |                     |            |                   |          |
| <i>Phone:</i>   | <i>Country code:</i>                    | 381 | <i>City Code:</i>   | 11         | <i>Phone Nr.:</i> | 2771-024 |
| <i>Fax:</i>   | <i>Country code:</i>                    | 381 | <i>City Code:</i>   | 11         | <i>Fax. Nr.:</i>  | 2776-583 |
| <i>E-mail:</i>  | zeljko@robot.imp.bg.ac.yu               |     |                     |            |                   |          |

|   |   |     |                     |       |                   |         |
|---|---|-----|---------------------|-------|-------------------|---------|
| <b>Reference number: 13 – Contact person of partner</b> |   |     |                     |       |                   |         |
| <i>Title:</i>   | <b>Mrs.(F)</b>                                    |     |                     |       |                   |         |
| <i>First name:</i>                                      | Biserka   |     | <i>Surname:</i>     | Ilić  |                   |         |
| <i>Function at organisation:</i>                        | Head of the Industrial Control Systems Department |     |                     |       |                   |         |
| <i>Name of the organisation:</i>                        | Informatika                                       |     |                     |       |                   |         |
| <i>Type of organisation:</i>                            | <b>Enterprise</b>                                 |     |                     |       |                   |         |
| <i>Faculty:</i>   |   |     |                     |       |                   |         |
| <i>Department:</i>                                      | Industrial Control Systems                        |     |                     |       |                   |         |
| <i>Country*:</i>  | RS  |     | <i>Postal code:</i> | 11000 |                   |         |
| <i>Town:</i>  | Belgrade  |     |                     |       |                   |         |
| <i>Address:</i>   | Jevrejska 32                                      |     |                     |       |                   |         |
| <i>Phone:</i>   | <i>Country code:</i>                              | 381 | <i>City Code:</i>   | 11    | <i>Phone Nr.:</i> | 3215286 |
| <i>Fax:</i>   | <i>Country code:</i>                              | 381 | <i>City Code:</i>   | 11    | <i>Fax. Nr.:</i>  | 3215186 |
| <i>E-mail:</i>  | beca@infopl.com                                   |     |                     |       |                   |         |

\* Refer to the Call for Proposals, Annex 5, "Glossary of codes" (page 49) 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

|   |  |     |                     |       |                   |         |
|---|--|-----|---------------------|-------|-------------------|---------|
| <b>Reference number: 14 – Contact person of partner</b> |  |     |                     |       |                   |         |
| <i>Title:</i>   | <b>Mr.(M)</b>  |     |                     |       |                   |         |
| <i>First name:</i>                                      | Dušan  |     | <i>Surname:</i>     | Babić |                   |         |
| <i>Function at organisation:</i>                        | Director   |     |                     |       |                   |         |
| <i>Name of the organisation:</i>                        | IvDam Process Control doo, Rep office of EMERSON Process Management for Serbia, Montenegro, Macedonia and Republic of Srpska |     |                     |       |                   |         |
| <i>Type of organisation:</i>                            | <b>Enterprise</b>  |     |                     |       |                   |         |
| <i>Faculty:</i>   |  |     |                     |       |                   |         |
| <i>Department:</i>                                      |  |     |                     |       |                   |         |
| <i>Country*:</i>  | RS   |     | <i>Postal code:</i> | 11000 |                   |         |
| <i>Town:</i>  | Belgrade   |     |                     |       |                   |         |
| <i>Address:</i>   | Kraljice Marije 67   |     |                     |       |                   |         |
| <i>Phone:</i>   | <i>Country code:</i>   | 381 | <i>City Code:</i>   | 11    | <i>Phone Nr.:</i> | 3088773 |
| <i>Fax:</i>   | <i>Country code:</i>   | 381 | <i>City Code:</i>   | 11    | <i>Fax. Nr.:</i>  | 3087682 |
| <i>E-mail:</i>  | dusan.babic@ivdamprocess.com   |     |                     |       |                   |         |

|   |   |     |                     |       |                   |              |
|---|---|-----|---------------------|-------|-------------------|--------------|
| <b>Reference number: 15 – Contact person of partner</b> |   |     |                     |       |                   |              |
| <i>Title:</i>   | <b>Mrs.(F)</b>  |     |                     |       |                   |              |
| <i>First name:</i>                                      | Frauke  |     | <i>Surname:</i>     | Muth  |                   |              |
| <i>Function at organisation:</i>                        | ASIIN International Office Coordinator // IN THIS PROJECT, AS THE 2 <sup>ND</sup> CONTACT PERSON OF THE PARTNER - REF. 6 // |     |                     |       |                   |              |
| <i>Name of the organisation:</i>                        | ASIIN Consult GmbH // SEE under Reference number 6///   |     |                     |       |                   |              |
| <i>Type of organisation:</i>                            | <b>Other</b>  |     |                     |       |                   |              |
| <i>Faculty:</i>   | n.a.  |     |                     |       |                   |              |
| <i>Department:</i>                                      | n.a.  |     |                     |       |                   |              |
| <i>Country*:</i>  | DE  |     | <i>Postal code:</i> | 40470 |                   |              |
| <i>Town:</i>  | Düsseldorf  |     |                     |       |                   |              |
| <i>Address:</i>   | Robert-Stolz-Str. 5 (for parcels: Postfach 10 11 39, 40002 Düsseldorf )   |     |                     |       |                   |              |
| <i>Phone:</i>   | <i>Country code:</i>  | +49 | <i>City Code:</i>   | (0)30 | <i>Phone Nr.:</i> | 688 18 38 60 |
| <i>Fax:</i>   | <i>Country code:</i>  | +49 | <i>City Code:</i>   | 211   | <i>Fax. Nr.:</i>  | 6214125      |
| <i>E-mail:</i>  | muth@asiin.de   |     |                     |       |                   |              |

\* Refer to the Call for Proposals, Annex 5, "Glossary of codes" (page 49) 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: 17 – Contact person of partner |                          |                     |                   |  |                   |  |
|--|--------------------------|---------------------|-------------------|--|-------------------|--|
| <i>Title:</i>                                    | <b>Mrs.(F)</b>           |                     |                   |  |                   |  |
| <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>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>                                   |                          |                     |                   |  |                   |  |

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

**List of proposed individual experts:**

Please note that individual experts **cannot come from any of the partner organisations**, neither as staff nor as students, as people within the partner organisations can be involved in the project directly.

| <b>Reference: i – Individual expert (from non-partners) proposed for specific tasks in project</b><br>(CV must be included of a maximum of 2 pages) |                          |                     |                   |  |                   |  |
|---|--------------------------|---------------------|-------------------|--|-------------------|--|
| <i>Title:</i>   | <b>Mrs.(F)</b>           |                     |                   |  |                   |  |
| <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>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>  |                          |                     |                   |  |                   |  |

| <b>Reference: ii – Individual expert (from non-partners) proposed for specific tasks in project</b><br>(CV must be included of a maximum of 2 pages) |                          |                     |                   |  |                   |  |
|--|--------------------------|---------------------|-------------------|--|-------------------|--|
| <i>Title:</i>  | <b>Mrs.(F)</b>           |                     |                   |  |                   |  |
| <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>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 Call for Proposals, Annex 5, "Glossary of codes" (page 49) 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

|  |                          |  |                     |  |                   |  |
|--|--------------------------|--|---------------------|--|-------------------|--|
| <b>Reference: iii – Individual expert (from non-partners) proposed for specific tasks in project</b><br><b>(CV must be included of a maximum of 2 pages)</b> |                          |  |                     |  |                   |  |
| <i>Title:</i>  | <b>Mrs.(F)</b>           |  |                     |  |                   |  |
| <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>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>   |                          |  |                     |  |                   |  |

|   |                          |  |                     |  |                   |  |
|---|--------------------------|--|---------------------|--|-------------------|--|
| <b>Reference: iv – Individual expert (from non-partners) proposed for specific tasks in project</b><br><b>(CV must be included of a maximum of 2 pages)</b> |                          |  |                     |  |                   |  |
| <i>Title:</i>   | <b>Mrs.(F)</b>           |  |                     |  |                   |  |
| <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>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 Call for Proposals, Annex 5, "Glossary of codes" (page 49) 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

|   |
|---|
| <b>List of individual experts</b>   |
| 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:<br>Title, first name and surname, function at institution, type of organisation, name of institution, name of faculty, name of department, COMPLETE address, Phone, Fax and e-mail. |

## 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.

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.

*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 but not contained within the application.*

### III.1 BACKGROUND OF THE PROJECT

*A maximum of four pages, (A4 size)*

#### III.1a Problem/s analysis

Please describe the actual situation

- in the Partner Country/ies - if relevant please refer to respective policies, legislation and/or regulations etc.
- of the staffing levels, teaching and language skills, IT skills, number of students/trainees, condition and level of equipment, facilities and infrastructure etc. at the partner institution/s or organisations that will benefit from the project, as appropriate.

Your information should be descriptive and specific to the subject of the proposal.

You should present the justification for the project and clearly identify the specific problem/s which the proposed project intends to solve.

Explain why this/these problem/s has/have been selected to be addressed, as opposed to others, and how the project proposal fits into the development strategies of the involved partners.

Also, please describe briefly how your project proposal was prepared.

In the partner countries (Serbia (RS), Egypt (EG)) situation in higher education area is getting better, but still away from EU standards.

The Serbian society has passed a long period of isolation and economic recession and it is in transition now. After the isolation period, the system of accreditation in Serbia has been established, and all Serbian universities have been preparing themselves for the first national accreditation cycle which is ongoing from September 2007 up to March 2009. In accordance with new Law in Higher Education RS, national accreditation is mandatory for all RS Higher Education Institutions by Committee for Accreditation and Quality Assessment as a new established national body. The national higher education standards have been brought in accordance with the Bologna Declaration, the Lisbon Agenda, the European Credit Transfer System (ECTS), EU models of ones, while

taking into account our transition situation and the traditional higher education system in the National Qualification Framework.

The most obvious challenges are to generate financial resources for modernization (legal software use, adequate laboratory and library facilities, informational infrastructure and services, etc.) and the establishment of formalised partnerships with industry as well as the improvement of international mobility and recognition of professional qualifications.

Also, with view to the needs of ongoing socio-economic reforms, engineering education requires special attention. Highly qualified engineers are of vital importance to the future economic and social development of Europe, particularly with the aim of making Europe the most competitive and dynamic knowledge-based economy in the world. Graduates of engineering programs in any given country may look for employment beyond national borders, or work for firms that operate cross-borders, or even work for major multinational companies. This increasing international mobility of engineering graduates has enhanced interest in accreditation of the institutions and programs that educate them.

Employers, graduate schools and licensing boards are very keen on the quality of education received by engineering graduates who aspire to be internationally mobile. In parts of the engineering profession where professional licensure is typically required for engineering practice, the accreditation of engineering graduates who intend to practice engineering in a country other than their home country become extremely important. With the onset of globalisation, there is an increasing awareness of the national strength in engineering education in Serbia being hindered by the lack of a national accreditation system. At European level, the European Network for Accreditation of Engineering Education (ENAE) was established, as well as the European Network for Quality of Higher Engineering Education for Industry (ENQHEE). This project envisages that engineering higher education degrees in its partner countries reach a level of quality that is in line with the relevant EU quality assurance standards and competitive with other international qualifications. This will facilitate mobility and enhance employability for partner country graduates.

According to national criteria for evaluation of engineering programs, the self-evaluation procedures have been conducted at the best technical faculties in Serbia (in Kragujevac, Belgrade, Novi Sad). As a result of the evaluations, the following strengths and weaknesses of graduates/study programmes were identified: I) Strengths – Analytical capabilities, Design capabilities: ability to handle open-ended problems, creativity and innovation, Theoretical knowledge, Decision-making skills, Graphical communication skills, Discipline, Work ethics. II) Weaknesses - Practical experience and orientation (academic), Ability to work in a team, Interdisciplinary knowledge, Integrative skills, Ability to work at interfaces among traditional disciplines, Commercial orientation, Oral and written communication skills, Ability to employ ICT, Inter-personal skills. III) Opportunities - Most real life problems require contribution from Engineers, Business recognizes the role of technology, Globalization offers opportunities for acquisition of state of the art technologies, Ambition of bright youth to become Engineers. IV) Threats - Financial support model for engineering education, Quantitative expansion in engineering education without respective quality assurance, Competition from non-engineer experts in high-level decision-making bodies.

Because of globalization of engineering trades and services, engineering education must follow rapid diffusion of information, new technology and economy as well as to provide graduates with international outlook and practice skills.



Egyptian (EG) society understands the needs of globalisation and all mentioned problems of the state and needs of the engineering education in the RS are valid for Egyptian universities also. A lot of Egyptian engineers were educated in Belgrade (RS), so that the development of the partner relations for solving the common problems, university internationalization and the global world standard acceptance is natural.

This project aims to meet the mentioned challenges at beneficiary universities as far as possible, in order to reach EU quality standards relevant for engineering education. Especially, the project will develop: 1) Internal quality assurance and enhancement mechanisms based on the best international practice. 2) A new model of flexible curriculum structure taking into account emerging interdisciplinary engineering areas and enabling the recognition of new professional qualifications. 3) A new model for upgrading of student services (Local International Office, Organization of student practice and development of partnership with enterprises, Informational support, etc.).

In the final phase of this project, at faculties with similar structural characteristics (envisaged: Faculties of Mechanical Engineering in Belgrade, Kragujevac, Nis, Faculty of Material Science and Engineering in Cairo), the implemented measures will be tested and verified through the accreditation at least on two study programmes (from interdisciplinary qualification framework if possible) by the German agency ASIIN (as a relevant European Accreditation Agency). In addition, this pilot international accreditation will encompass updating of laboratories and libraries, student counselling practices, organisation of student mobility and industrial practice, as well as improvement of informational facilities and all other essential improvements at the respective faculty.

### **III.1b Presentation of the partners and external experts**

In this section you should explain why the selected partners are best suited to participate in the project and describe their particular expertise in relation to the project objectives. Partners should be chosen due to their specific capacities, expertise and experience necessary to achieve the project objective. Please focus on elements which are essential for the project, such as

- particular capacity and expertise
- relevant previous experience
- contacts beneficial to the project etc.

In case of involvement of external experts, please describe their specific expertise and contribution to the project.

The consortium of the IAES project has a significant number of members (14).

University of Belgrade (RS) as a Grantholder, University of Kragujevac (RS), University of Nis (RS) and German university in Cairo (EG) are the beneficiaries in the project.

Since the outcomes of the project will impact on governance reform on Republic level, the Ministry of Education and Sports of the RS has been incorporated as the full legal partner in the project in order to support application of this project.

Serbian Institute “Mihailo Pupin” and enterprises “Inforatika” and “IvDam Process Control” are important partners for development of partnership with enterprises within wider area (ensuring feed back from industry/enterprises, development of qualifications frameworks, provision of industrial / business practice for students, joint development of life-long learning courses, etc.).

EU consortium members \*( Technische Universität München (TUM) and University of Karlsruhe (UNI-KA) both from Germany, Imperial College London (ICL) from United Kingdom, Universitat Politècnica de Catalunya (UPC) from Spain (Barcelona), non-academic EU-partners ASIIN (German accreditation agency) through its branch ASIIN consultatives, and enterprise "Robotina" Slovenia as targeted skill praxis institutions) have a role to provide training and knowledge transfer to partner country consortium members, to evaluate the progress of the project, to participate in the project management and to help realization of student and academic staff mobility.

ASIIN Consult GmbH is a part of the Accreditation Agency for Degree Programmes in Engineering, Informatics, Natural Sciences and Mathematics (ASIIN e. V.). As a membership-based association, ASIIN represents German (technical) universities and universities of applied sciences, associations from the fields of technology and natural sciences, scientific societies and umbrella organisations from industry and trade unions. They have joined to work towards the shared goals of assuring and improving the quality of degree programmes in engineering, natural sciences and informatics. In addition, this alliance is given support in a variety of ways by the faculties of German universities and the departments of universities of applied science.

ASIIN has been a project partner in the EUR-ACE project and is currently involved as project partner in the EUR-ACE Implementation Project, the LEPAC Project and the TEMPUS PRO-EAST Project: Promotion and Implementation of EUR-ACE Standards. For the Euro-Inf Project, ASIIN has been the project coordinator since 2006. ASIIN has been authorised to assign the Chemistry Eurobachelor® label as one of the first accreditation agencies across Europe.

Imperial College London is a leading Higher Education institution in the UK and in a recent Times survey it was voted among the top 10 universities in the world. The Mechanical Engineering Department has been consistently awarded the top 5\* rating by the Higher Education Funding Council and it continues to be rated among the very top such Departments in the World. The undergraduate degree course in ME is accredited by the Institution of ME and as such it is recognised as part of the qualifications leading to the title of Chartered Engineer. The experience of leadership, collaboration with industry, quality assurance and enhancement system development will be useful for this project. Prof. Ristic is one of the distinguished professors at ICL and his contribution is mostly expected in the field of accreditation of interdisciplinary engineering education. He is the Grant applicant of the JEP CD 41029-2006.

Technische Universität München - TUM (founded in 1868) was voted Elite University in a joint decision taken by the Science Council and the German Research Foundation on 13.10.2006. Its success with the "International Graduate School of Science and Engineering" (IGSSE) and the two clusters of excellence hosted by TUM - "Cognition for Technical Systems" (COTESYS) and "Origin and Structure of the Universe" - paved the way to realising the future-orientated concept of "TUM. The Entrepreneurial University". TUM has always had top-three positions in the nationwide rankings throughout the last years. Prof. Rank has been the 1st Vice-President of the university and dealt a lot with quality assurance implementation and accreditation, being at the same time in the council of ASIIN. It is expected that his expertise will contribute to the project very much. Prof. Bungartz is one of the leaders in Computational engineering field, he is the founder of the International school in CSE and will contribute to the development of such general engineering curricula at University of Belgrade \*(Faculty of Mechanical Engineering) and probably University of Kragujevac \*(Faculty of Mechanical Engineering). As this program is already accredited with ASIIN, it is expected that will strongly help its implementation and accreditation, also taking into the account Prof. Bungartz's previous experience as a Vice-Dean for teaching in Stuttgart where he executed quality assurance procedures and introduced governance reform.

University of Karlsruhe (UNI-KA) is one of the oldest German university nationwide known as being the leader in excellent studies in Computer Sciences, Mechanical Engineering and Business Engineering. In former times all the first professors in Serbia were educated in TH-Karlsruhe. UNI-KA is also strongly involved in foundation and relation with German university in Cairo, which is one of the beneficiary participants in the project. Prof.Gabi is the Dean of the Faculty of Mechanical engineering since 2002 and has done a lot on improvement of organization and quality assurance implementation, as well as accreditation issues. His contribution is foreseen in accreditation issues and transferring of know-how to both beneficiary countries.

Universitat Politecnica de Catalunya (UPC) has already been a very active and useful partner in the JEP CD 18114 2003 project. The experience of the UNESCO chair for sustainability held by Prof. Xavier Alvarez del Castillo will be used to transfer know-how to both beneficiary countries in the field of quality assurance, sustainability and accreditation, since Prof.Alvarez is the expert who is in close connection with accreditation agency ABET.

Robotina Ltd. was established in 1990 and defined automation of production processes as its principal activity. As early as in 1991 we acknowledged that the offer of quality equipment on the domestic market is limited to performance of planned activity and after a thorough analysis the decision to enter into a strategic partnership with Hitachi, the world's biggest producer of control technology, was accepted. 1998 was one of the most important years for the company since Robotina merged with SMS Projekt Ltd. which is one of the leading companies in the field of automation of food industry. In 2000 independent departments such as machinery production, building management, food process control, projects and sales department were established. "Robotina" will provide opportunities for partner country students to do their training and help all relevant project activities (International student practice & Development of partnership with enterprises).

The University of Belgrade (<http://www.bg.ac.yu/>) is the oldest and the largest Serbian university. Since interdisciplinary study programs at Mechanical Engineering faculties will be more in focus by application of this project, it is significant to stress that the Faculty of Mechanical Engineering at University of Belgrade (UB-FME) have adequate at their different departments in order to provide desired outcomes. The UB-FME consists of 14 departments and over 240 educators at various academic levels, teaching various fields of mechanical engineering (from agricultural machinery to aeronautics). Each year, between 500 and 600 new students enroll on the first year of Mechanical Engineering. Prof.Nedeljkovic has been a Dean since 2002 and managed to conduct a large part of necessary reforms (introduction of 3-cycle system and ECTS, curricula reform, part of quality assurance and institution governance) which all led to the uprise of the Faculty finalizing with national Certificate of Accreditation issued a month ago being the first of all technical faculties in Serbia.

The University of Kragujevac <http://www.kg.ac.yu/> (founded in 1976) covers educational area of Central Serbia region (about 2.5 million citizens), and its FME is the leader among smaller number of faculties comprising university. Prof.Matijevic as a Vice-dean for accreditation has done an excellent job in preparing the necessary documentation and methods for UK-FME application for accreditation, which is currently going on, but expected to be successful. Efforts aiming at increasing the quality and international acknowledgement of engineering studies at the University of Kragujevac are recognized as particularly significant, so is this project opportunity for the UK-FME to demonstrate its advantages and capabilities.

The University of Nis has similar characteristics as the University of Kragujevac. University of Nis consists of thirteen faculties providing education at different levels of study for half a century.

Especially important for the University are engineering studies, since technical faculties are the oldest at the University of Nis and thus of high significance for its reputation. Also, although University of Niš is lately especially devoted to developing and promoting interdisciplinary studies which involve expertise and contents from its various faculties, majority of novel programs are based on engineering education. Prof. Cojbasic from Mechanical Engineering Faculty has significant experience in developing common university programs, which is likely to be useful expertise for this project.

German university in Cairo is one of the youngest participants in the project. Three German universities (Karlsruhe, Stuttgart and Ulm) contributed to its establishment and rise. GUC has an important role of promoting engineering in Egypt and needs help in all the segments of modern engineering studies system (3-cycle, ECTS, curricula, governance, quality assurance, interaction with society). GUC will most probably not be ready for the final aim (accreditation), but will benefit a lot from all the activities in the project. Prof. Mansour is the Dean and it is expected from him to apply all the necessary steps through the project.

The role of the Serbian Ministry of Education and Sports is to evaluate progress of the project at the beneficiary institutions. Also, the Ministry will help promotion and sustainability of project results, as well as manage the project and knowledge dissemination strategies.

Institute Mihailo Pupin (IMP) is the leading Serbian R&D institution in information and communication technologies (ICT), as well as the biggest and the oldest ICT institute in South-eastern Europe. Ever since it was founded in 1946, Institute has been engaged in contract research and application-orientated research on behalf of key utility and transportation companies and various vertical industry sectors. Mihajlo Pupin Institute presently has approximately 500 employees. IMP skilled and innovative R&D pool assembles more than 250 researchers (including 7 Univ. Prof., 19 PhD and 35MSc).

Informatika is the leading, as well as the oldest, information technology company in the West Balkans. The company augments many years of experience in controlling and monitoring industrial processes and providing information needed by business managers with continuous investment into the education of our personnel, constant vigilance to ensure our place at the forefront of the world's technology trends, and carefully selected foreign partners - all in the name of providing unparalleled service for anyone in a relationship with Informatika. Informatika has a team of 200 experts, specializing in numerous areas of the computer industry

The RS enterprise IvDam Process Control doo is representing the company Emerson Process Management, in the region. Emerson is one of the biggest companies in the area of production, distribution and the implementation of equipment and services for automation of different processes. This product portfolio is covering the instruments from single process variable measurement, through final executing elements (control valves) till the big sophisticated control systems (DCS). Being the world's leader, Emerson pays the special attention in education of process control specialists, (technicians and engineers) all over the World.

The role of IvDam Process Control doo, Informatika and Institute Mihailo Pupin (IMP) is to provide training and knowledge transfer to the beneficiary members of the consortium, or more exactly, opportunities for students and staff from the beneficiary institutions to do their training and student practice as well as to support all relevant project activities (International student practice & Development of partnership with enterprises).

### **III.2 THE PROJECT**

*A maximum of four pages , (A4 size).*

Having already identified the problems and needs in Section III.1a, in this narrative part you should describe the project fully. It must be clearly and directly related to the identified problems.

Address as appropriate the following points in your description of the project:

- academic content
- pedagogical methodology
- involvement of academics, students and stakeholders at large
- quality assurance processes
- convergence with EU higher education policies

For example, present:

- a clear definition of what the duration and structure of new or up-dated course/s will be, identify any innovative subjects which will be introduced as a result of project activities and a description how the project activities will progress over time
- an explanation of which groups will be involved (for example, administrative/academic/students and/or their representatives,) and how they will be involved, as project staff or as target group
- a clear indication of how many training courses will be prepared and delivered during the project life and forecasts of how many people will be trained and a description of the improved and new skills that will be acquired by the trainees;
- a description of new (teaching) methodology/ies and new equipment to be introduced and of how they will contribute to teaching, learning and managing (Joint Projects) or policy development, system change and legislation (Structural Measures)
- a description of what changes will be introduced at institutional level as a result of the activities;
- the number and duration of mobilities, etc.

You must clearly indicate the working methodologies and processes to be used.

The outcomes that will be achieved in each year should be described and information on the activities, and the resources that will be required to achieve them, should be provided.

Engineering education must follow fast changes in science and technology. An engineer gets a role of an integrator, a manager, a leader and an innovator. The context of contemporary engineering education becomes more interdisciplinary and includes economic, social factors based on a good scientific background. The quality engineering education is development of intellectual skills and knowledge that will equip graduates to contribute to society through productive and satisfying engineering careers as innovators, decision-makers and leaders in the global economy of the twenty-first century. Also the quality engineering education demands a process of continuous improvement and dramatic innovation at student, employer and societal satisfaction by systematically and collectively evaluating and refining the system, practices and culture of engineering education institutions. The task force points out that total quality management is not a destination, but rather a way to improvement. In accordance to modern university mission “to contribute to society through the pursuit of education, learning and research at the highest international levels of excellence”, good internal mechanisms of quality and enhancement are necessary.

The goal of this project is to conduct all necessary measures at partner country universities in order to establish quality assurance and enhancement mechanisms based on the best international practices and to provide students at partner country universities a forward-looking, promising, internationally-recognised and academically-founded education and training in the engineering area. On one hand there are precisely defined general academic national and international standards for accreditation, on the other one there are job market expectations. To follow the expectation of graduates and employers, faculties must introduce continuous improvement process based on outcome measures. Accreditation becomes an evaluation of the dynamic process of quality assurance in education. Because of that, in the final phase of this project, at beneficiary faculties with similar structural characteristics (Faculties of Mechanical Engineering in Belgrade, Kragujevac, Nis and Cairo), the implemented measures will be verified by accreditation of at least two study programme (from interdisciplinary qualification framework if possible) with relevant European Accreditation Agency (like ASIIN <http://www.asiin.de>). Accredited study profiles will be more competitive in the increasingly-contested education market whereas beneficiary faculties most directly converge with the EU higher educated policies.

At partner country universities the project aims to develop: 1) Internal quality assurance and enhancement mechanisms based on the best international practice; 2) A new model of flexible curriculum structure taking into account emerging interdisciplinary engineering areas and enabling the recognition of new professional qualifications; 3) A new model for upgrading of student services (Local International Office, New organization framework for student practice and institutional partnership with enterprises, Informational services) – but, the concretization will be performed by the final phase of this project. These outcomes will be reached by universities' committees established during the project realization. The committees will be composed of students and academic staff representatives from different technical faculties.

At the Faculties of Mechanical Engineering in partner countries, the final phase of this project that means accreditation of at least two study programme with the ASIIN (<http://www.asiin.de>) will be performed. In typical accreditation procedure the general academic standards define: I) Curriculum (is balanced by general education (i.e. mathematics, science and engineering courses), gives preparation for engineering practice, has appropriate sequence of courses, has industrial aspects, has international outlook, etc.), II) Faculty (has sufficient number of staff competent to cover curriculum areas, etc.), III) Facilities (if adequate classrooms, laboratories and equipment are available, if computing and information infrastructure exists, legal software in use, etc.), IV) administration and operation (constructive leadership, financial resources, technical and clerical service, etc.). Also, we can distinguish: 1) indicators of student quality (proportion undertaking practical training, proportion participating in research and development, proportion of foreign students, number of application per seat, etc.), 2) indicators of faculty quality (publication records, quantum of practical experience, etc.), and 3) indicators of institutional quality (the utilization of strategic planning processes, interactions with industry, interdisciplinary activities, self-assessment, etc.). Based on these parameters, it is possible to see if an institution fulfils general standards. In this case we can look for the license only. The license is given by periodic monitoring of general academic standards. In order to reach international accreditation, wide reform content must be performed, and the following objectives will be achieved during the project: 1) Adoption of quality assurance and enhancement system based on the best practice of recognized European engineering schools; 2) Improvement of laboratory, library, learning and teaching facilities (to procure necessary legal software, laboratory scale models, textbooks, blended learning facilities). Since education for engineers requires a combination of theoretical knowledge and practical experience referring to great attention to laboratory and real system experiments as indispensable elements for developing engineer's skills to deal with instrumentation and physical processes, laboratory upgrading is a very important project output. Interdisciplinary laboratory (among mechanical engineering, electrical engineering and ICT area) will

be more focused by this project. 3) The International Office establishment on each beneficiary faculty, being a Student Office part in order to contribute to internationalization of higher education at beneficiary institutions. All activities of the established International Offices will be conducted according to exemplary documentation and procedures, based on transfer of EU good practice, experience and knowledge. The quality system (based on exemplary documentation and procedures) of the International Office will be proposed by the academic project staff. 4) Local Student Office improvement by development of informational system facilities (web facilities, teaching and learning facilities as well as e-learning facilities); 5) Student practice organization through development of partnership with enterprises. Appropriate quality procedures will be formed. Together with local firms and institutes as well as the EU consortium partner firm, there will be performed a pilot project of student practice. 6) Indispensable curriculum corrections (Interdisciplinary study programs at Mechanical Engineering faculties will be more focused by this project), and 7) New teaching staff employment \*(if necessary).

The management of this complex project (see III.5.3 and III.5.4) is planned as follows: 1) Consortium meetings are planned twice a year. 2) The committee with members from all consortium institutions will be formed and carry out specific project activities. 3) Integrated progress reports will be made every year. 4) At the end of project the final report will be made and published.

This project is in compliance with the following national and wide priorities 1) To enhance the quality and relevance of higher education in the partner countries, 2) To enhance inter-disciplinarity, 3) To enhance the employability of university graduates, 4) Introduction of quality assurance, 5) Development of international relations, 6) Development of partnerships with enterprises, 7) Qualifications frameworks.

In accordance with the idea of integrating partner country universities into the European university system, this project will focus on transferring, as much as possible, of the EU consortium members existing experience to the beneficiary partner universities. EU consortium members will provide the necessary leadership and experience for this project.

The goal of this project is to enhance the quality and relevance of higher education in engineering area in partner countries and to reach the integration of partner country universities into the European university system by international accreditation of engineering studies.

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

In order to plan and structure the project's objectives, outcomes and activities as thoroughly as possible, you are expected to complete an LFM (maximum of 2 pages), which represents a synthesis of the project. The LFM is a tool which provides an overview of the project and can assist in the design, planning, implementation and monitoring of a project. Please use the table provided further below.

Details provided in the table should complement the information previously explained in the project narrative (section III.2).

In addition to the project overview, which summarises the objectives and activities in the first column, you are requested to provide details on other aspects, such as indicators of progress, risks and assumptions.

**Wider objective:**

Give an indication of the medium / long-term aim to which the project is designed to contribute.

*Example: To ensure that the targeted Partner Country university is in a position to offer education which is targeted towards the changing needs of the economic environment.*

**Project-specific objectives:**

State the specific objectives of the project. The specific objectives should indicate what is expected to have been achieved by the end of the project. The objective of your project should be “SMART”: Specific, Measurable, Accurate, Realistic and Time-bound.

*Example: To bring undergraduate curricula, teaching methods and library facilities at the Faculty of Economics of the University of xxx into line with the Bologna requirements by December xxx.*

**Outcomes - Outputs:**

The outcomes and outputs to be produced during the project implementation should be listed in concrete terms. They should be logically linked to each other *and*, once again, they should be specific, realistic in relation to the duration of the project and measurable in so far as this is possible. Producing all planned outcomes and outputs will mean that the project objectives have been attained as planned.

Assign reference numbers for each outcome and each output. These will be needed for the work plan (section III.4)

Outputs are tangible and outcomes are rather intangible.

*An output (tangible) could be, for instance, newly developed teaching materials for the MSc degree in Management & Business.*

*An outcome (intangible) could be, for example, all the experience gained in a project such as skills of management of trans-national partnerships, methods with which the final products were developed or methodologies used.*

**Activities:**

The achievement of an outcome/output implies the completion of a set of related activities. Indicate which activities are planned to achieve each outcome/output.

Assign subordinate reference numbers for each activity (see above). These will be needed for the work plan.

**Inputs:**

Inputs should be expressed in terms of the human resources, equipment, materials and travel considered necessary to perform the activities intended to produce the desired outcomes/outputs.

*Example: Two librarians from D to UKR for 3 weeks (costs of stay and travel costs); 1 part-time secretary in the co-ordinating consortium member for 6 months (staff costs); 5 computers, 2 printers at beneficiary university (equipment).*

Inputs should be appropriate and sufficient to undertake the planned activities.

**Indicators of progress:**

These are the “sign-posts” that will be used to measure the performance of the project throughout its life-cycle. These preliminary indicators are likely to be reviewed or supplemented by more specific indicators once a project is operational.

Indicators should be specific in terms of quantity, quality, time and target group.



Indicators provide a basis for the monitoring of the project's progress and should therefore be considered as an ongoing evaluation mechanism within the project.

***Assumptions and risks:***

Please mention in this section any factors (that is, situations, events, conditions or decisions) which are necessary for the success of the project activities, outcomes or objectives, but which are not directly under the control of the partnership. You should see these as situations or events that you think might occur. The more these situations/events are beyond the control of the partnership the higher the risk which is posed to the project if they occur.

***Example:*** *That accreditation of the new curriculum might not be granted by the national authorities.*

For those identified risks, which are internal to the partnership, 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 partnership should foresee and indicate in the application means and activities to counter-act these risks.

### III.3 LOGICAL FRAMEWORK MATRIX – LFM

|  |   |  |   |
|--|---|--|---|
| <p><b>Wider Objective:</b><br/><i>What is the overall broader objective, to which the project will contribute?</i></p> <ul style="list-style-type: none"> <li>• To provide quality assurance model for all technical universities in the region.</li> <li>• Development of knowledge based economy by improvement of human resources.</li> <li>• To form the basis of integration of the region's universities into the EU family of higher education institutions.</li> </ul>   | <p><b>Indicators of progress:</b><br/><i>What are the key indicators related to the wider objectives?</i></p> <ul style="list-style-type: none"> <li>• Acceptance of our model by other departments/faculties.</li> <li>• Human resources development. Employment of graduate students.</li> <li>• Improvement of quality and relevance of higher education in the partner countries.</li> </ul>  | <p><b>How indicators will be measured:</b><br/><i>What are the sources of information on these indicators?</i></p> <ul style="list-style-type: none"> <li>• Review of quality assurance model changes at other departments/faculties.</li> <li>• Review of statistical reports. Economic indicators in the related areas.</li> <li>• Review of interuniversity contracts, shared programmes, international licenses and accreditation certificates.</li> </ul>   |   |
| <p><b>Specific Project Objective/s:</b><br/><i>What are the specific objectives, which the project shall achieve?</i></p> <ul style="list-style-type: none"> <li>• Introduction of quality assurance and enhancement system based on the best international practice.</li> <li>• Improvement of laboratory, library, student services, learning and teaching facilities.</li> <li>• University internationalization.</li> <li>• Development of partnership with enterprises through student practice organization.</li> <li>• International accreditation of at least two study programs with the German ASIIN as a relevant European Accreditation Agency.</li> </ul> | <p><b>Indicators of progress:</b><br/><i>What are the quantitative and qualitative indicators showing whether and to what extent the project's specific objectives are achieved?</i></p> <ul style="list-style-type: none"> <li>• Establishment of institutions for inner quality assurance. Adoption of relevant quality procedures in accordance to national and international standards.</li> <li>• Procurement of necessary legal software, laboratory scale models, textbooks, blended learning facilities. New information and student service facilities.</li> <li>• Local International Offices establishment. Interuniversity collaboration. Mobility activities. Adoption of international standards and good practice.</li> <li>• Agreements among faculties and firms about partnership activities and student practice organization.</li> <li>• Self-assessment reports. Accreditation certificate.</li> </ul> | <p><b>How indicators will be measured:</b><br/><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"> <li>• University reports and documentation. Reports of national and/or international accreditation bodies. Faculties' decisions. Official documents. Progress reports.</li> <li>• Review of lab, library, information and student service facilities.</li> <li>• Review of university and faculty reports. Official documents. Mobility statistics. Promotion university international frameworks - documents published in University periodicals and bulletins. Web presentation.</li> <li>• Review of signed agreements among faculties and firms. Student practice reports. Annual faculty reports.</li> <li>• Review of self-assessment reports. Accreditation certificate by ASIIN.</li> </ul> | <p><b>Assumptions &amp; risks:</b><br/><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"> <li>• Direct training and support by the German ASIIN as a relevant European Accreditation Agency. Acceptance of proposed reform processes by university authorities. Insufficient support of all partners.</li> <li>• Availability of laboratory equipment and setups.</li> <li>• Active involvement of partner country faculty and university management.</li> <li>• Assessment results that might cause a prolongation of the accreditation process, or even a defiance of accreditation.</li> <li>• Direct support by Ministry of Education and Sports.</li> </ul> |

|   |   |   |   |
|---|---|---|---|
| <p><b>Outputs (tangible) and Outcomes (intangible):</b><br/> <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"> <li>• Quality assurance and enhancement system for engineering education.</li> <li>• New flexible study program models in order to reach interdisciplinarity and new qualifications frameworks.</li> <li>• New laboratory, library, learning and teaching facilities as well as administrative/student services improvement.</li> <li>• Pilot project of international accreditation of engineering studies</li> <li>• Management of the project.</li> <li>• Quality control and monitoring.</li> <li>• Dissemination and sustainability.</li> </ul> | <p><b>Indicators of progress:</b><br/> <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"> <li>• Committee for quality of engineering education is established. New quality procedures are adopted and old ones are updated. Anticipated publications.</li> <li>• New possibilities within traditional study programs. Recognition of new professional qualifications. New interdisciplinary study programs.</li> <li>• New laboratory facilities installed. Legal software use. Library and student services are updated. Local international offices establishment as a part of student services. Partnership with enterprises through student practice organization is developed.</li> <li>• Self-assessment reports. Accreditation certificate by ASIIN.</li> <li>• Consortium meetings held on schedule.</li> <li>• Student satisfaction with established learning environment.</li> <li>• Workshops organized (*2 by ASIIN).</li> </ul> | <p><b>How indicators will be measured:</b><br/> <i>What are the sources of information on these indicators?</i></p> <ul style="list-style-type: none"> <li>• University's/faculties' decisions. Annual report by all consortium members. New relevant publications. Official documents. Web presentation.</li> <li>• University's/faculties' decisions about new models of interdisciplinary study outcomes.</li> <li>• Lab inventory. Annual report by all consortium members. Review of university's/faculties' decisions. Relevant web pages. Review of signed agreements between faculties and firms.</li> <li>• Review of self-assessment reports. Accreditation certificate by ASIIN. Number of accredited study programs.</li> <li>• Minutes of consortium meetings.</li> <li>• Annual report by all consortium members.</li> <li>• Public presentations and response. Review of relevant web pages. Annual report by all consortium members.</li> </ul> | <p><b>Assumptions &amp; risks:</b><br/> <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"> <li>• Active involvement of faculty and university management. Acceptance of proposed reform processes by university authorities.</li> <li>• Restructured study programs are not accepted by faculty / university officials.</li> <li>• Available funds for those purposes. Availability of laboratory equipment etc.</li> <li>• Political and economic stability in the region. Available funds for those purposes.</li> <li>• Active involvement of faculty and university management. Project staff availability; The delay of official feedback from the EU institutions; Political and economic stability in the region.</li> <li>• Efficient management among consortium members. Motivated beneficiary university staff and students to cooperate.</li> <li>• Willingness of non-involved regional universities to accept project results. Political and economic stability.</li> </ul> |
| <p><b>Activities:</b><br/> <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"> <li>• 1.1.1 Review of existing national and international quality assurance and enhancement systems for engineering education; 1.2 Establishment of Committee for quality of engineering education; 1.3 Proposal of quality assurance and enhancement system for engineering education; 1.4 Promotion of necessity of quality assurance and enhancement system based on the best international practice; 1.5. Implementation of quality assurance and enhancement system at beneficiary faculties.</li> </ul>   | <p><b>Inputs:</b><br/> <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"> <li>• 1.1. Academic staff costs (RS,EG,EU), 18 short visits (RS,EG - EU), 2 (RS-EG), 3 (EU-RS,EG), 14 (RS-RS) Equipment: 3 computers, 1 server, 1 network printer, 1 scanner, 1 telefax, 1 photocopier, 1 video beam projector per established the Project Office *(at 4 partner countries universities), Printing and publishing: Web publishing, report/documents, presentation documents, CDs, Rulebook of the Committee for quality of engineering education, Guidelines for quality assurance and enhancement in engineering education, Rulebooks of adopted quality assurance</li> </ul>  |   | <p><b>Assumptions, risks and pre-conditions:</b><br/> <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"> <li>• Active involvement of faculty and university management. Efficient project management &amp; proper staff/team selection. Motivated beneficiary university staff and students to cooperate. Acceptance of proposed reform processes by university authorities.</li> <li>• Active involvement of faculty and university management. Efficient project management. Restructured study programs are not accepted by Faculty / University officials.</li> <li>• Available funds for those purposes.</li> </ul>   |

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| <ul style="list-style-type: none"> <li>• 2. 2.1. Review of current standards in engineering education and contemporary qualifications frameworks; 2.2. Creation of new flexible study program models in order to reach interdisciplinarity and new qualifications frameworks.</li> <li>• 3. 3.1. Selection, procurement and instalation of laboratory software and equipment; 3.2. Library facilities and administrative/student services improvement; 3.3. Developing of partnership with enterprises through student practice organization.</li> <li>• 4. 4.1 Accreditation of at least two selected study program with ASIIN.</li> <li>• 5. 5.1. Consortium and TEMPUS meetings (future activities planned); 5.2. Project coordination and project reports generation;</li> <li>• 6. 6.1 Quality control and monitoring ensured;</li> <li>• 7. 7.1 Dissemination analyzing and actions planning; 7.2 Sustainability analyzing and actions planning.</li> </ul> | <p>and enhancement procedures at partner country universities. Other costs.</p> <ul style="list-style-type: none"> <li>• 2. Academic staff costs (RS,EG,EU), 14 short visits (RS,EG -EU), 2 (EU-RS,EG), Report/documents publishing, web publishing. Other costs.</li> <li>• 3. Academic staff costs (RS,EG, EU), Admin. staff costs (RS,EG), Equipment: lab. equipment, setups and software for engineering education and support for web-based laboratory's networks; per 1 photocopier, 3 computers, 1 printer and 1 scanner, textbooks and database access for library; 17 short visits (RS,EG-EU), 3 (EG-RS), 14 (RS-RS); Printing and publishing 12 Handbooks and Lab. manuals, 4 Handbooks for installed ICT facilities, Web publishing; Other costs.</li> <li>• 4. Acad. and admin. staff costs (RS,EG, EU); 5 s. v. (EU-RS/EG), 14 (RS-RS); Web publishing, Bulletins and relevant documentation publishing; Other costs</li> <li>• 5. Acad. and admin. staff costs (RS,EG, EU); 27 short visits (RS/EG - EU), 18 (EU-RS/EG), 11(EG-RS, RS-EG), 12 (RS-RS); Web publishing, Publishing of Final Progress Report and similar. Other costs. Overheads</li> <li>• 6. Academic staff costs (RS,EG,EU); Web publishing, Produce questioner-forms, collect answer and produce statistic reports and publish them. Other costs.</li> <li>• 7 Academic staff costs (RS,EG,EU); Eq: sound / microphone system, flip chart, mobile projector system (x3); T: 4(EU-RS), 3 (EG-RS), 26(RS-RS); Publishing on CD ROMs, web and hard copy publishing / (Workshops proceedings, reports, brochures, bulletin publishing). Other costs.</li> </ul> |  | <p>Availability of laboratory equipment etc. Efficient project management &amp; proper staff/team selection. Active involvement of faculty and university management.</p> <ul style="list-style-type: none"> <li>• Active involvement of faculty and university management. Political and economic stability in the region. Available funds for those purposes.</li> <li>• Project staff availability; The delay of official feedback from the EU institutions; Political and economic stability in the region. Active involvement of faculty and university management.</li> <li>• Efficient project management &amp; proper staff/team selection. Motivated beneficiary university staff and students to cooperate. Active involvement of partner country faculties and universities management.</li> <li>• Willingness of non-involved regional universities to accept project results; Political and economic stability of the region.</li> </ul> |
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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. Please create additional work plan tables if further space is needed. 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

| Outcomes/Outputs and Activities |   | M1       | M2   | M3    | M4    | M5    | M6       | M7    | M8    | M9    | M10  | M11      | M12  |
|---------------------------------|---|----------|------|-------|-------|-------|----------|-------|-------|-------|------|----------|------|
| Ref. N°<br>/Sub Ref. N°         | Title   |          |      |       |       |       |          |       |       |       |      |          |      |
| <b>1.</b>                       | <i>Quality assurance and enhancement system for eng. education.</i>   | <b>O</b> |      |       |       |       |          |       |       |       |      |          |      |
| 1.1                             | Review of existing national and international quality assurance and enhancement systems for engineering education       | xx=      | xxxx | x=xx  | x     |       |          |       |       |       |      |          |      |
| 1.2                             | Establishment of Committee for quality of engineering education   |          | xxx  | xx xx | xx xx | xx    |          |       |       |       |      |          |      |
| 1.3                             | Proposal of quality assurance and enhancement system for eng. educ.   |          |      |       | xx    | x x   | x= x     | xx xx | xx xx | xx xx | x=x  | xxxx     | xxxx |
| 1.4                             | Promotion of necessity of quality assurance and enhancement system based on the best international practice             |          |      |       | xx    | xx    | xx       | xx    |       | xx    | xx   | xx       | xx   |
| 1.5                             | Implementation of quality assurance and enhancement system at beneficiary faculties                                     |          |      |       |       |       |          |       |       |       |      |          |      |
| <b>2.</b>                       | <i>New flexible study program models in order to reach interdisciplinarity and new qualifications frameworks</i>        |          |      |       |       |       | <b>O</b> |       |       |       |      |          |      |
| 2.1                             | Review of current standards in engineering education and contemporary qualifications frameworks                         |          |      |       |       |       | xxxx     | xxxx  | xxxx  | xx=x  | xxxx | =x       | xxxx |
| 2.2                             | Creation of new flexible study program models in order to reach interdisciplinarity and new qualifications frameworks   |          |      |       |       |       |          | xx    | xx    | x     | xxxx | xxxx     | xxxx |
| <b>3.</b>                       | <i>New laboratory, library, learning and teaching facilities as well as administrative/student services improvement</i> |          |      |       |       |       |          |       |       |       |      | <b>O</b> |      |
| 3.1                             | Selection, procurement and instalation of lab. software and equipment   |          |      |       |       |       |          |       |       |       |      | xx x     | xx   |
| 3.2                             | Library facilities and administrative/student services improvement  |          |      |       |       |       |          |       |       |       |      | xxxx     | xx   |
| 3.3                             | Developing of partnership with enterprises through student practice organization  |          |      |       |       |       |          |       |       |       |      | xx x     | xx   |
| <b>4.</b>                       | <i>Pilot project of international accreditation of eng. studies</i>   |          |      |       |       |       |          |       |       |       |      |          |      |
| 4.1                             | Accreditation of at least two selected study program with ASIIN   |          |      |       |       |       |          |       |       |       |      |          |      |
| <b>5.</b>                       | <i>Management of the project</i>  | <b>O</b> |      |       |       |       |          |       |       |       |      |          |      |
| 5.1                             | Consortium and TEMPUS meetings (future activities planned)  | xx       |      |       |       |       | xx       | =     |       |       |      |          |      |
| 5.2.                            | Project coordination and project reports generation   | xxxx     | xxxx | xxxx  | xxxx  | xxxx  | xxxx     | xxxx  | xxxx  | xxxx  | xxxx | xxxx     | xxxx |
| <b>6.</b>                       | <i>Quality control and monitoring</i>   | <b>O</b> |      |       |       |       |          |       |       |       |      |          |      |
| 6.1                             | Quality control and monitoring ensured  | xx       |      |       | x     | x x x |          |       |       |       | x    |          | xx   |
| <b>7.</b>                       | <i>Dissemination and sustainability</i>   | <b>O</b> |      |       |       |       |          |       |       |       |      |          |      |
| 7.1                             | Dissemination analyzing and actions planning  | x        |      | x     | x     |       | xx       | xx    |       |       | x    | x        | x    |
| 7.2                             | Sustainability analyzing and actions planning   | x        |      | x     | x     |       | xx       | xx    |       |       | x    | 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**

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 SECOND project year**

| <b>Outcomes/Outputs and Activities</b> |   | <b>M1</b>   | <b>M2</b>   | <b>M3</b>   | <b>M4</b>   | <b>M5</b>   | <b>M6</b>   | <b>M7</b>   | <b>M8</b>   | <b>M9</b>   | <b>M10</b>  | <b>M11</b>  | <b>M12</b>  |
|--|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Ref. N°</b><br><b>/Sub Ref. N°</b>  | <b>Title</b>  |             |             |             |             |             |             |             |             |             |             |             |             |
| <b>1.</b>                              | <i>Quality assurance and enhancement system for eng. education.</i>   |             |             |             |             |             |             |             |             |             |             |             |             |
| 1.1                                    | Review of existing national and international quality assurance and enhancement systems for engineering education       |             |             |             |             |             |             |             |             |             |             |             |             |
| 1.2                                    | Establishment of Committee for quality of engineering education   |             |             |             |             |             |             |             |             |             |             |             |             |
| 1.3                                    | Proposal of quality assurance and enhancement system for eng. educ.   | <b>xx</b>   | <b>=x</b>   | <b>xx</b>   | <b>xx</b>   | <b>x</b>    | <b>x</b>    |             |             |             |             |             |             |
| 1.4                                    | Promotion of necessity of quality assurance and enhancement system based on the best international practice             | <b>xx</b>   | <b>xx</b>   | <b>xx</b>   | <b>xx</b>   | <b>xx</b>   | <b>xx</b>   |             |             |             | <b>xx</b>   | <b>xx</b>   | <b>xx</b>   |
| 1.5                                    | Implementation of quality assurance and enhancement system at beneficiary faculties                                     | <b>xxxx</b> | <b>xxxx</b> | <b>xxxx</b> | <b>xxxx</b> | <b>xxxx</b> | <b>xxxx</b> | <b>xxxx</b> | <b>xxxx</b> | <b>xxxx</b> | <b>xxxx</b> | <b>xxxx</b> | <b>xxxx</b> |
| <b>2.</b>                              | <i>New flexible study program models in order to reach interdisciplinarity and new qualifications frameworks</i>        |             |             |             |             |             |             |             |             |             | <b>O</b>    |             |             |
| 2.1                                    | Review of current standards in engineering education and contemporary qualifications frameworks                         |             |             |             |             |             |             |             |             |             |             |             |             |
| 2.2                                    | Creation of new flexible study program models in order to reach interdisciplinarity and new qualifications frameworks   | <b>xxxx</b> | <b>xxxx</b> | <b>x=x</b>  | <b>xxxx</b> | <b>x=x</b>  | <b>xxx</b>  | <b>xx</b>   | <b>xx</b>   | <b>xxxx</b> | <b>xxxx</b> |             |             |
| <b>3.</b>                              | <i>New laboratory, library, learning and teaching facilities as well as administrative/student services improvement</i> |             |             |             |             |             |             |             |             |             |             |             |             |
| 3.1                                    | Selection, procurement and instalation of lab. software and equipment   | <b>xx</b>   | <b>x</b>    | <b>=x</b>   | <b>xx</b>   | <b>xx</b>   | <b>= x</b>  |             | <b>xx</b>   | <b>xxxx</b> | <b>xxxx</b> | <b>xx</b>   | <b>xx</b>   |
| 3.2                                    | Library facilities and administrative/student services improvement  | <b>xx</b>   | <b>x</b>    | <b>xx</b>   | <b>xx</b>   | <b>=x</b>   | <b>x</b>    |             | <b>xx</b>   | <b>xxxx</b> | <b>xx</b>   | <b>xxxx</b> | <b>xxxx</b> |
| 3.3                                    | Developing of partnership with enterprises through student practice organization  | <b>xx</b>   | <b>xx</b>   | <b>x</b>    | <b>xx</b>   | <b>xxxx</b> | <b>xxxx</b> | <b>====</b> | <b>xxxx</b> | <b>xx</b>   | <b>xx</b>   | <b>xx</b>   | <b>xx</b>   |
| <b>4.</b>                              | <i>Pilot project of international accreditation of eng. studies</i>   |             |             |             |             |             | <b>O</b>    |             |             |             |             |             |             |
| 4.1                                    | Accreditation of at least two selected study program with ASIIN   |             |             |             |             |             | <b>xxxx</b> | <b>xxxx</b> | <b>xxxx</b> | <b>xxxx</b> | <b>xxxx</b> | <b>xxxx</b> | <b>xxxx</b> |
| <b>5.</b>                              | <i>Management of the project</i>  | <b>O</b>    |             |             |             |             |             |             |             |             |             |             |             |
| 5.1                                    | Consortium and TEMPUS meetings (future activities planned)  | <b>xxx</b>  |             |             |             |             | <b>xx</b>   | <b>=</b>    |             |             |             |             |             |
| 5.2                                    | Project coordination and project reports generation   | <b>xxxx</b> | <b>xxxx</b> | <b>xxxx</b> | <b>xxxx</b> | <b>xxxx</b> | <b>xxxx</b> | <b>xxxx</b> | <b>xxxx</b> | <b>xxxx</b> | <b>xxxx</b> | <b>xxxx</b> | <b>xxxx</b> |
| <b>6.</b>                              | <i>Quality control and monitoring</i>   |             |             |             |             |             |             |             |             |             |             |             |             |
| 6.1                                    | Quality control and monitoring ensured  | <b>x</b>    | <b>x</b>    | <b>xx</b>   | <b>x</b>    | <b>x</b>    | <b>x</b>    | <b>x</b>    |             |             | <b>x</b>    | <b>x</b>    | <b>xx</b>   |
| <b>7.</b>                              | <i>Dissemination and sustainability</i>   |             |             |             |             |             |             |             |             |             |             |             |             |
| 7.1                                    | Dissemination analyzing and actions planning  | <b>xx</b>   | <b>x</b>    | <b>x</b>    | <b>x</b>    | <b>xx</b>   | <b>x</b>    | <b>x</b>    |             | <b>xx</b>   |             | <b>x</b>    | <b>x</b>    |
| 7.2                                    | Sustainability analyzing and actions planning   | <b>xx</b>   | <b>x</b>    | <b>x</b>    | <b>x</b>    | <b>xx</b>   | <b>x</b>    | <b>x</b>    |             | <b>xx</b>   |             | <b>x</b>    | <b>x</b>    |

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

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 THIRD project year**

| Outcomes/Outputs and Activities |   | M1   | M2   | M3   | M4   | M5   | M6   | M7    | M8   | M9   | M10      | M11  | M12      |
|---------------------------------|---|------|------|------|------|------|------|-------|------|------|----------|------|----------|
| Ref. N°<br>/Sub Ref. N°         | Title   |      |      |      |      |      |      |       |      |      |          |      |          |
| <b>1.</b>                       | <i>Quality assurance and enhancement system for eng. education.</i>   |      |      |      |      |      |      |       |      |      |          |      | <b>O</b> |
| 1.1                             | Review of existing national and international quality assurance and enhancement systems for engineering education       |      |      |      |      |      |      |       |      |      |          |      |          |
| 1.2                             | Establishment of Committee for quality of engineering education   |      |      |      |      |      |      |       |      |      |          |      |          |
| 1.3                             | Proposal of quality assurance and enhancement system for eng. educ.   |      |      |      |      |      |      |       |      |      |          |      |          |
| 1.4                             | Promotion of necessity of quality assurance and enhancement system based on the best international practice             | x    | x    | x    |      |      |      |       |      |      |          |      |          |
| 1.5                             | Implementation of quality assurance and enhancement system at beneficiary faculties                                     | xxxx | xxxx | xxxx | xxxx | xxxx | xxxx | xxxx  | xxxx | xxxx | xxxx     | xxxx | xxxx     |
| <b>2.</b>                       | <i>New flexible study program models in order to reach interdisciplinarity and new qualifications frameworks</i>        |      |      |      |      |      |      |       |      |      |          |      |          |
| 2.1                             | Review of current standards in engineering education and contemporary qualifications frameworks                         |      |      |      |      |      |      |       |      |      |          |      |          |
| 2.2                             | Creation of new flexible study program models in order to reach interdisciplinarity and new qualifications frameworks   |      |      |      |      |      |      |       |      |      |          |      |          |
| <b>3.</b>                       | <i>New laboratory, library, learning and teaching facilities as well as administrative/student services improvement</i> |      |      |      |      |      |      |       |      |      | <b>O</b> |      |          |
| 3.1                             | Selection, procurement and instalation of lab. software and equipment   | xxxx | xxxx | xxxx | xxxx | xxxx | xxxx |       |      | x    | x        |      |          |
| 3.2                             | Library facilities and administrative/student services improvement  | xxxx | xxxx | xxxx | xxxx | xxxx | xxxx | xxxx  | xxxx | xxxx | xxxx     |      |          |
| 3.3                             | Developing of partnership with enterprises through student practice organization  |      | x    | x    | x    | x    | xxxx | ===== | xxxx | xxxx |          |      |          |
| <b>4.</b>                       | <i>Pilot project of international accreditation of eng. studies</i>   |      |      |      |      |      |      |       |      |      |          |      | <b>O</b> |
| 4.1                             | Accreditation of at least two selected study program with ASIIN   | xxxx | xxxx | xxxx | xxxx | xxxx | xxxx | xxxx  | xxxx | xxxx | xxxx     | xxxx | xxxx     |
| <b>5.</b>                       | <i>Management of the project</i>  |      |      |      |      |      |      |       |      |      |          |      | <b>O</b> |
| 5.1                             | Consortium and TEMPUS meetings (future activities planned)  | xx   |      |      |      |      | xx=  |       |      |      |          |      | xx       |
| 5.2.                            | Project coordination and project reports generation   | xxxx | xxxx | xxxx | xxxx | xxxx | xxxx | xxxx  | xxxx |      | xxxx     | xxxx | xxxx     |
| <b>6.</b>                       | <i>Quality control and monitoring</i>   |      |      |      |      |      |      |       |      |      |          |      | <b>O</b> |
| 6.1                             | Quality control and monitoring ensured  | x    | x    |      |      | x    | xx   |       |      | x    |          | xxxx | xxxx     |
| <b>7.</b>                       | <i>Dissemination and sustainability</i>   |      |      |      |      |      |      |       |      |      |          |      | <b>O</b> |
| 7.1                             | Dissemination analyzing and actions planning  | xx   |      | x    | xx   | x    |      | xx    | xx   | x    | x        | xxxx | xx xx    |
| 7.2                             | Sustainability analyzing and actions planning   | xx   |      | x    | xx   | x    |      | xx    | xx   | x    | x        | xxxx | xx xx    |

Starting and end date of Outcome: **O**,

Activity carried out in the EU/Candidate Country: **=**,

Activity carried out in the Partner Country (ies): **X**