**ENGINEERING PRACTICE IN THE EU**

Copies of the approved Course Syllabus are located at:

www.mik.pte.hu

|  |  |  |
| --- | --- | --- |
| **Catalog information:** |  | **Instructor:** |
| ECTS credits: 2 |  | Dr. Agnes Lindenbach, professorOffice: 7624 Hungary, Pécs, Boszorkány út 2. B305E-mail: lindenbach.agnes@mik.pte.hu |
| course number: PMKMENE140A |  | **Lecturers:**Dr András TÍMÁR, professor emeritusOffice: 7624 Hungary, Pécs, Boszorkány u. 2. Office No B305E-mail: timara@hu.inter.netOffice Phone: +36 72 503 650 – 22844 |
| prerequisites: -  |  | Dr. András Gulyás, associate professorgulyas. andras@mik.pte.hu |
| allotment of hours per week: 2 L, 0 P (see schedule) |  |  |

**General Course Description:**

The aim of the course is to introduce students to the system of professional engineering licences, the role and operation of the chambers of commerce and professional associations, the forms and possibilities of training and further education through examples from different countries.

Course content:
A brief history of the EU, the institutional system of education in the EU, training policies. Opportunities for engineering education and further education inside and outside EU countries. The dual training system in higher education. The recognition of academic qualifications and degrees. Regulation and licensure in engineering. The role and operation of the chambers of commerce, the system of traineeship, chamber membership.

• International Engineering Technologist Agreement.

• Graduate Attributes and Professional Competencies.

**Methods:**

The course is based on lectures with ppt presentations.

**Learning Objectives:**

The objectives of the European economic and political integration, brief history of the EU. Institutional and decision-making systems and budget of the EU. The European Monetary Union. Development and future of the Euro, responses to the economic crisis.

The Regional, Structural and Cohesion Policy of the EU. Supporting/financing systems of the EU.

Infrastructure policy of the EU, co-operation of the national networks (interoperability).

Preparation and implementation of the infrastructure projects that requires EU supports.

Development of the European transport and the common transport policy of the EU, Trans-European Transport Network (TEN-T)

**Process:**

In the semester students should also make a presentation about the engineering licences, the role and operation of the chambers of commerce and professional associations in their own country. A discussion is planned comparing the different tools and methods applied in the different countries and in Hungary.
Students should make semester task. The semester task is going to be about to prove the understanding the European norms and be able to use the learned materials in practice. Since during the semester they are going to make presentations about the institutions and practice of their own country, at the end of the course they should be able to write paper about EU related topics, that have been thought but also to make detailed research about the selected topics. The topic of the final paper will combine the practice and the theoretical/institutional background as well. The list of the titles will be presented at the end of the semester.

**Required Reading and Other Materials will be equivalent to:**

*Compulsory course material:*

How the European Union works (European Commission, 2014)

*Recommended course materials:*

<http://ec.europa.eu/internal_market/qualifications/docs/guide/users_guide_en.pdf>

2005/36 EC on the Mutual Recognition of Professional Qualifications

<http://eur-lex.europa.eu/legal-content/HU/TXT/?uri=URISERV:c11065>

Kengyel, Á.: The European Union and its policies. In: Palánkai, T. (ed.): *Economics of Global and Regional Integration*. Akadémiai Kiadó. Budapest, 2014, pp. 175-190.

Kengyel, Á.: The Importance of EU Cohesion Policy in Central and Eastern Europe. *Transition Studies Review*, Vol. 22. No. 1. (2015), pp. 3-20.

Kengyel, Á.: New Headings – Old Problems: The Evolution and Future of the EU Budget, *INTERECONOMICS Review of European Economic Policy* 51(2), March-April 2016, pp. 100-106. (ISSN 0020-5346) DOI 10.1007/s10272-016-0584-0 (The article is fully accessible to all users at libraries and institutions that have purchased a SpringerLink license':[http://link.springer.com/article/10.1007/s10272-016-0584-0](http://www.springer.com/-/0/AVQXNru_2brxj7RS2BEJ).)

**Schedule:**

The rough outline of the schedule is as follows:

9th September 2016: Lecture. The history and development of the European integration 1945-1956: from the European Coal and Steel Community (ECSC) to the European Economic Community (EEC)

23th September 2016: Lecture. 1957-2016: from the European Economic Community to the European Union (EU) and beyond (after Brexit)

7th October 2016: Lecture. How the EU works: tasks and responsibilities of institutions & bodies, common policies and coordination of national interests

21st October 2016: Decision making in the European Union and the so-called democratic deficit. EU laws and regulations related to the activities of civil engineers (Eurocode standards, FEANI and the European Engineers)

18th November 2016: Lecture. Preparation of projects eligible to be co-financed by the EU: Project Management Cycle, public procurement and tendering

2nd December 2016: Lecture. Coordinated development of the infrastructure of international interest – the Trans European Networks: opportunities for civil engineers. R & D in the EU; accessibility and dissemination of professional knowledge, the activities of universities

16th December 2016: Written examination

**Evaluation of Student Performance:**

Grading will follow the course structure with the following weight:

Written examination: 100%

The final grade will be based on the following guidelines:

Grading scale

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Grade | 5 | 4 | 3 | 2 | 1 |
| Numeric Grade | 100-89 | 88-77 | 76-66 | 65-55 | 54-0 |

**Students with special needs:**

Students with special physical needs and requesting classroom accommodation must first register with the Dean of Students Office, all application to provide an equal learning environment for all will be guaranteed.