COURSE FICHE

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| **Title of Course:** | **Engineering Practice in the European Union 2** |
| Course Code:  | PMRKGNM099OA-EA-00; PMTRTNM707HA-EA-00 |
| **Engagement per week (Lecture/Exercise/Laboratory):**  | 1\*45 minutes / 0 / 0 |
| **Examination:**  | Written examination at the end of term  |
| **Credits:**  | 2 |
| **Proposed term**:  | Autumn |
| **Chair:** | Institute of Engineering and Smart TechnologiesChair of Civil Engineering**(Dr. Ágnes LINDENBACH** professor**)** |
|  | Institute of Engineering and Smart TechnologiesChair of Civil Engineering**(Dr. András TIMÁR** professor emeritus**)** |
|  | Institute of Engineering and Smart TechnologiesChair of Civil Engineering**(Dr. András GULYÁS** associate professor**)** |
| **Scope of education:** | Structural Engineering; Computer Science Engineering |
| **Learning Objectives**: The course is designed to introduce students of Civil Engineering to the objectives of the European economic and political integration, based on brief history of the EU. They will be prepared to understand the institutional and decision-making system as well as the budgetary mechanisms of the EU, with special emphasis on the structural development-supporting and cohesion policy. Opportunities for engineers provided by the infrastructure policy of the EU in achieving interoperability of the national networks of infrastructure. The role and responsibilities of engineers in preparation and implementation of infrastructure projects of international interest requiring EU financial support. Tendencies aiming to reform the existing institutional framework and governing principles of the co-operation among EU Member States following the 2008-2014 financial and economic crisis and Brexit.  |
| **Short Content:** 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. The institutional system of technical 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. |
| **General requirements and additional information** |
| **Instructor / Lecturer(s) :** | **Dr. Ágnes Lindenbach professor**E-mail: lindenbach.agnes@mik.pte.hu and/or interut21@tvnetwork.hu**Dr. András TIMÁR** professor emeritusE-mail: timar.andras@mik.pte.hu and/or timara@hu.inter.net**Dr. András Gulyás** associate professorE-mail: guland51@gmail.com  |
| **Language:** | English |
| **Requirements of course acknowledgement (during the semester):** | Attending all lectures is mandatory (to be controlled), and impacts the final grade. Missing more than 30% of the lectures will create grounds for failing the Course. It is required to be in class at the starting time and stay there until the scheduled end of the lecture, delayed arrival or early departure of more than 20 minutes will be considered as an absence. In case of illness or family emergency, a valid excuse (eg. a doctor's note) is to be presented in due course. In the semester students should make a brief presentation about the engineering licences, the role and activities 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 the EU.Students shall prepare a short paper (a Case Study of maximum 3 pages) reflecting their understanding of the EU engineering norms and capabilities to apply the learned materials. The short paper based on their own detailed research, must deal with an EU related topic selected by the Student and approved by the Instructor. The topic of the paper will combine the practice and the theoretical/institutional background as well. The paper should be sent in electronic form to the Instructor not later than COB 11 December 2017. Acceptance of the paper by the Instructor is a precondition of attending the final examination.  |
| **Examination and structure of the grade:** | Quiz-like written examination at the end of term (75%). Attendance (10%) and preparation of an appropriate paper/Case Study (15%) |
| **Recommended readings and references:** | Recommended readings could be find on the internet and in the library.**How the European Union works (European Commission, 2014)**<https://europa.rs/images/publikacije/HTEUW_How_the_EU_Works.pdf>**System for the recognition of professional qualifications**<http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=LEGISSUM:c11065>**Directive 2005/36/EC of the European Parliament and of the Council of 7 September 2005 on the recognition of professional qualifications**<http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:02005L0036-20160524>**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).) |
| **Inscription to the course:** | Through the **NEPTUN** system. Students with a disability and special needs to request special accommodations, please, notify the Registry Office. Proper documentation of disability will be required. All attempts to provide an equal learning environment for all will be made. |

**Consultation opportunities:**

**Dr. Ágnes Lindenbach**: in the office B305, between .....................on .......................

**Dr. András Timár**: in the office B305, between 13:00-13.30 on Fridays in the schedule below

**Schedule**

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| **Week of term** | **Topic of the lecture** |
| **2nd****15.09.2017** | The history and development of the European integration 1945-1957: from the European Coal and Steel Community (ECSC) to the European Economic Community (EEC) |
| **4th****29.09.2017** | 1957-2016: from the European Economic Community to the European Union (EU) and beyond (after Brexit) |
| **6th****13.10.2017** | How the EU works: tasks and responsibilities of institutions & bodies, common policies and coordination of national interests |
| **8th****27.10.2017** | 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) |
| **10th****10.11.2017** | Preparation of projects eligible to be co-financed by the EU: Project Management Cycle, public procurement and tendering |
| **13th****01.12.2017** | 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 |
| **15th****15.12.2017** | Final examination (quiz-like written test) |

Pécs, 04. September 2017.

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**Dr. Ágnes Lindenbach Dr. András Timár**

 professor professor emeritus