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| **Unit of Study:** | Organisational Networks | **Subject code:** | GVKON1GBNE |
| **Institute:**  | Institute of Enterprise Management (1084 Budapest, Tavaszmező str. 15-17.)  | **Credits:**  | 2 |
| **Course type:**  | Full-time | **Language:**  | English | **Term:** | Spring |
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| **Major:**  |  |
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| **Lecturer-in-charge:**  | Győző A. Szilágyi | **Lecturer(s):**  | Győző A. Szilágyi |
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| **Prerequisites:**  | None |
| **No. of sessions per week/term:** | Weekly | **Lecture:**  | 2 | **Seminar:**  | 0 | **Lab:**  | 0 | **Consultation:**  | 0 |
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| **Exam/Course assignment:**  | Midterm exam |
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| **Course objectives:**  | The aim of the subject is to provide the basic knowledge on network science and to give a short review on its applicability in the organizations.  |
| **Course assessment:** | Students are required to attend all classes. Should a student accumulate 5 absences (excused and/or unexcused) out of 14 in the semester class, he/she will not receive academic credits.(i) Write a 3 to 5 pages long essay on a chosen topic. Use at least 6 in-text citation on different sources, and in the reference list there must be a corresponding entry. (ii) Its presentation may last 10 minutes long, not less. Ppt or Prezi is highly recommended. |
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| **Week(consultation)** | **Course content** |
| **1.** | Basics of graph theory |
| **2.** | Early sociological network researches |
| **3.** | Basics of network sciences |
| **4.** | Random networks |
| **5.** | Small word networks |
| **6.** | Scale free networks |
| **7.** | The multiplex organization networks |
| **8.** | Network layers in the organisational network |
| **9.** | Power structures in the organizational network |
| **10.** | Information spreading in the organizational network |
| **11.** | Professional processes in the organizational network |
| **12.** | Network robustness |
| **13.** | Presentations |
| **14.** | Summary |
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| **Assessment (method of assessment, make-ups and re-sits):**  | Essay 60%, presentation and discussion 40%. |
| **Course completion (written or oral exam, test, etc.):** | Written. |
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| **Compulsory literature:** | BARABÁSI, A.L.: Linked. Perseus Publishing, Cambridge, 2002 |
| **Recommended literature:**  | BARABÁSI, A.L.: Network Science. Cambridge University Press, 2016BUCHANAN, M.: Nexus: Small World and the Groundbreaking Science of Networks. W.W. Norton & Company, 2003 |
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| **Additional material:**  |  |
| **Quality management aspects:** | TÜV CERT EN ISO 9001:2000 |