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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, 2016  BUCHANAN, 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 | | | | | | | | |