



## COURSE DATASHEET

<b>Semester:</b>	2012/13/2
<b>Course:</b>	Chemical information research
<b>Code:</b>	VEMKKP2122V
<b>Responsible department:</b>	Department of Organic Chemistry
<b>Department code:</b>	MKOK
<b>Responsible instructor:</b>	Dr. Szilárd Tőrös

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### Course objectives:

Educational objectives: Introduction to the use and research of the reference literature in chemistry.

### Course content:

Subject topics: 1.Basis of the library informatics. Notion of information, IT in the library. Integrated library systems in general. The ALEPH integrated library system and its extensions in the University of Pannonia, Library and Archives. 2.System for tools to discover the chemical reference literature. Printed primary and secondary documents, types of documents, grey literature in the chemistry. The most important monographs and periodicals. 3.Use of handbooks, encyclopaedias in the field of organic chemistry – Beilstein. Use of handbooks, encyclopaedias in the field of inorganic chemistry – Gmelin. 4.Search term suggestion, analysis, refinement, classification of the results. Comfortable features provided by different electronic information sources. 5.Periodical indexes in chemistry. The use of the Chemical Abstracts and SciFinder Scholar. 6.Searching of factographic data, use of tables Factographic databases in the field of chemistry – International Critical Tables, Landolt-Börnstein. 7.Online databases: ScienceDirect, Scopus 8.Online full text databases I: EISZ databases 9.Online full text databases II.: EBSCO databases 10.Online bibliographic databases: Cambridge Scientific Abstracts, INIS 11.Open access chemical sources on the internet. Patents and standards databases related to chemistry. 12.Environmental protection databases on the internet. Databases of hazardous materials. 13.CD-ROM databases: Current Contents, Tomes Plus. 14.Methods for analysis of the results. Rules for the preparation of the references of a dissertation. Citation techniques. Scientometrics and bibliometrics: times cited data, impact factor. 15.Test writing.

### Requirements, evaluation and grading:

Requirement of the subject: Every student has to prepare a 3-6 pages review from the content of the results of reference search based on topic chosen from a list or connected to the dissertation. The test written on the last lesson must be passed.

### Required and recommended readings:

Felhasznált tankönyvek: • Az online szakirodalmi információkeresés kézikönyve. I. II. III. TMI 1985. • Dömötör Lajosné – Egyházy Tiborné .- Kun Szabó Tiborné: Hagyományos és online kémiai információkeresés



# UNIVERSITY OF PANNONIA

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### Required and recommended readings:

a Veszprémi Egyetem Központi Könyvtárában. Veszprém, 1989. • Bakonyi Géza: Kutatás a hálózati könyvtári katalógusokban. N. I. I. F., 1996. • Heves Gábor: A hálózat használata a környezetvédelem területén. N. I. I. F., 1995. • Y. Wolman: Hogyan használjuk a kémiai irodalmat? Műszaki Kvk., 1986. • Thomas, Brian J.: The world wide web for scientist & engineers. SPIE, 1988.