

General Information			
Course name	ÚCHV/CHOZ/03 Organometallic Compounds	ECTS Credits	4
		Semester	winter
Aims			
Objectives of the course: To clarify the role of the organometallic compounds chemistry as one of the perspective interdisciplinary field of organic and inorganic chemistry.			
Content			
Brief outline of the course: The goal of this subject is to apprise the students of the main characteristics of organometallic compounds - the types of carbon-metal bonds, the structure, chirality and basic methods of preparation of organometallic compounds. The most important groups of organometallic compounds, including metallocenes, are presented in details herein. Many examples of the utilization of organometallic complexes in addition, elimination and substitution reactions are given including many examples of their applications in asymmetric synthesis and in the synthesis of natural products possessing some biological activity.			
Assessment Methods and Criteria			
Method of assessment and course studies completion: Examination Continuous assessment (e.g. written test, individual work...): Individual work on seminars, 2 written tests (7th and 14th week) Final assessment (e.g. exam, thesis...): Written exam consisting of theory and solving the practical synthetic problems			
<b>Grading Scale (in %):</b> 100-91%-A, 90-81%-B, 80-71%-C, 70-61%-D, 60-51%-E, 50-0%-FX			

**Grading System:**

The University recognises the following six degrees for the evaluation of the study results:

- a) A – excellent (excellent results) (numerical value 1)
- b) B – very good (above average results) (1.5)
- c) C – good (average results) (2)
- d) D – satisfactory (acceptable results) (2.5)
- e) E – sufficient (results meet the minimum criteria) (3)
- f) FX – failed (requires further work) (4)

**Bibliography**

C. Elshenbroich, A. Salzer, Organometallics, VCH Publishers; 2nd ed 1993

F.A.Carey, R.J. Sundberg, Advanced organic chemistry, Kluwer Academic Publishers Group, 4th ed 2001

R.H. Crabtree, The Organometallic chemistry of Transition Metals, John Wiley & Sons, 3rd ed 2000

Š. Toma, R. Šebesta, J. Cvengroš, Chémia a využitie organokovových zlúčenín, OMEGA INFO, Bratislava, 2007

M. Schlosser, Organometallics in Synthesis, 3rd Manual, John Wiley & Sons, 2013

