

**Title of the course:** Organometallic and Catalysis Laboratory Course (a Chemistry BSc course) kv1n4en6

**Credits:** 5 credits

**Coordinator/Department:** László Szepes Professor in Chemistry

Department of Inorganic Chemistry

**Terms for joining:** general entrance requirements of Chemistry MSc program, basic knowledge

in Organometallic and Preparative Organic Chemistry. (In the case of completed ELTE BSc cours prerequisites are Organometallic Chemistry (kv1n1en5) and Organic Chemistry Lab 1 (kv1n4es3), or equivalent in any other case.)

**Topics covered by the course:**

In course of the laboratory practice the students get experience in the field of advanced preparative and manipulation techniques like semi-micro syntheses in vacuum and inert atmosphere, the Schlenk technique, electro- and photochemical preparations, microwave assisted reactions, chemical vapour deposition. The studied chemical systems include – among others – transition metal catalysts, clusters, organometallic reagents and precursors.

**Literature:**

The manual containing experimental procedures together with discussion and brief theory is available via internet (Hung.).

Faigl Ferenc, Kollár László, Kotschy András, Szepes László: Szerves Fémvegyületek Kémiaja, Nemzeti Tankönyvkiadó, Budapest, 2001., I.-III. fejezet (Hung.)

Ch. Elschenbroich, A Salzer: Organometallics, VCH, Weinheim, 1992. (Eng.)