

In-depth Practical					
Module number	Credits	Workload	Term	Frequency	Duration
	8 CP	240 h	1.-2. Sem.	WS and SoS	1 Semester
Courses Industrial Chemistry			Contact hours a) 8 SWS b) 1 SWS	Self-Study 105 h	Group size Max. 4 participants
Prerequisites Solid knowledge of basics in <i>Chemical Reaction Engineering</i> , <i>Heterogeneous Catalysis</i> and in <i>Industrial Chemistry</i>					
Learning/Course Objectives: Under the supervision of an experienced scientist students plan, perform and evaluate experiments in the field of fundamental research. They receive a detailed introduction into selected scientific methods used in modern research in the field of heterogeneous catalysis. Soft skills: teamwork and collaboration while carrying out experiments, graphical presentation of practical results, general knowledge about operating systems, software and computing, scientific writing skills					
Content <ul style="list-style-type: none"> • Scientific collaboration in a team working on a selected problem of heterogeneous catalysis • Detailed introduction to the scientific methods applied in fundamental research • Literature search and evaluation on the special problem • Planning, performing and evaluating of the experiments under the supervision of an experienced scientist • Written report and oral presentation of the theoretical basics and obtained results 					
Teaching methods a) Practical; b) Seminar					
Mode of assessment 50 min end-of-term presentation of the results including discussion					
Requirement for the award of credit points Successful experimental performance, accepted protocol, and successful oral presentation					
Module applicability Master of Chemistry, focal point Industrial Chemistry					
Weight of the mark for the final score Weighted according to CPs					
Module coordinator and lecturer(s) M. Muhler, B. Mei					
Further information All required documents incl. safety instructions are distributed via <i>moodle</i> .					