

Criteria for achievement 6 ECTS points for the module WP9.1 and WP9.2, as follows:

- **Mandatory attendance in the lectures (WP9.1), i.e.**
A participant is **not qualified** to receive the credit for WP1 if he or she is **absent more than two times** in the lectures (WP9.1). **Each lecturer records the attendance notice** which must be forwarded to sohyun.park@lmu.de
- **Mandatory performance of 4 practical courses given in the run sheet of practical courses (Laufzettel) for the module WP9.2 and reports in time.** Each report is evaluated and rated by the course supervisor. The rate for each report must be recorded directly **in the course sheet with the supervisor's signature.**
- **The completed course sheet must be delivered to SoHyun PARK (Theresienstr. 41C, Room# C201).** The final credit for the entire module WP1 is determined by the average value of the rates of the rates for 4 practical courses performed with 4 reports.

Name, First name	
Matriculation number	
Study program	
Semester of study	

Materials science I (WP1 Geomaterials and Geochemistry)

Short name of Modules	Title of courses	Performance day and time	ECTS-points	Grade (Note)
WP1.1	Fundamentals in Materials Science (lecture)		6	
WP1.2	Fundamentals in Materials Science (exercise)			
			Overall grade:	

- Run sheets for the exercises -

Topics of exercises Lecturers	Date of report submission	Signature of lecturers	Grade
Inorganic chemistry Dr. Thomas Bräuniger			
Molecular dynamics simulation Prof. Dr. Sandro Jahn			
Gold nano stars Dr. Quinten Akkerman & Dr. Sushant Ghimire			
X-ray powder diffraction (XPD) for phase identification Prof. Dr. SoHyun Park			
Scanning probe microscopy PD. Dr. Frank Trixler			
Raman spectroscopy PD. Dr. Melanie Kaliwoda			
Thermal analysis Dr. Kai-Uwe Hess			
Electron microprobe Dr. Dirk Müller			
Material Characterization by Electron backscattering diffraction (EBSD) N.N.			
Scanning electron microscopy (SEM) Prof. Elena Sturm			
Visiting the production and R&D of the company Clariant at Bad Aibling PD. Dr. Gerhard Mestl			

At least 4 attempts of your choice must be completed, which can result in a total of 6.0 ECTS points!

Then submit this list, signed by each lecturer, to Prof Dr SoHyun PARK.

Valid grades: 1.0; 1.3; 1.7; 2.0; 2.3; 2.7; 3.0; 3.3; 3.7; 4.0; 5.0

Name, Vorname	
Name, First name	
Matriculation number	
Study program	
Semester of study	

Materials science II (WP9 Geomaterials and Geochemistry)

Short name of Modules	Title of courses	Performance day and time	ECTS-points	Grade (Note)
WP9.1	Fundamentals in Materials Science (lecture)		6	
WP9.2	Fundamentals in Materials Science (exercise)			
Overall grade:				

- Run sheets for the exercises -

Topics of exercises Lecturers	Date of report submission	Signature of lecturers	Grade
Inorganic chemistry Dr. Thomas Bräuniger			
Gold nano stars Dr. Quinten Akkerman & Dr. Sushant Ghimire			
Rietveld analysis with Neutron diffraction data Prof. Dr. SoHyun Park			
Impedance spectroscopy Prof. Dr. SoHyun Park			
Density functional theory simulation Prof. Dr. Sandro Jahn			
Scanning probe microscopy PD. Dr. Frank Trixler			
Thermal analysis Dr. Kai-Uwe Hess			
Electron microprobe Dr. Dirk Müller			
Raman spectroscopy PD. Dr. Melanie Kaliwoda			
Scanning electron microscopy (SEM) Prof. Elena Sturm			
Visiting the production and R&D of the company Clariant at Bad Aibling PD. Dr. Gerhard Mestl			

Es müssen mindestens 4 Versuche Ihrer Wahl absolviert werden, die insgesamt 6,0 ECTS-Punkte ergeben können!

Reichen Sie anschließend diese von jedem Dozenten unterschriebene Liste bei Prof. Dr. SoHyun PARK ein.

Gültige Noten: 1,0; 1,3; 1,7; 2,0; 2,3; 2,7; 3,0; 3,3; 3,7; 4,0; 5,0