

Module Nr.	Credits	Workload	Semester	Frequency	Duration
SE-CO-18	5 CP	150 h	3	Yearly (WS)	1 semester
Courses			Contact time	Self-study	Group size
Reservoir Engineering			3 h/week	105 h	20
Reservoir Engineering					
Learning outcomes					
<p>The students will learn the fundamentals of reservoir engineering. This broad range of knowledge will be taught with a special emphasis to geothermal and hydrocarbon exploration. After successful completion of the course, the students will be able:</p> <ul style="list-style-type: none"> • to understand microseismic monitoring • to understand geophysical data from boreholes • apply the fundamentals of reservoir engineering to estimate the risks of reservoir stimulations and to estimate reservoir permeability • to transfer the fundamentals of reservoir engineering to scientific projects, e.g. to transfer the knowledge of several case histories to new sites and to plan a reservoir monitoring system 					
Content					
<ul style="list-style-type: none"> • Fundamentals of reservoir engineering with the focus on geothermal applications • Interpretation of downhole measurements • Interpretation of spinner results • Measuring reservoir permeability • Conceptual models of geothermal fields • Reservoir modelling • Reservoir monitoring • Reservoir stimulation • Case Histories 					
Teaching Methods / Language					
Lectures 2 h/week, Exercises 1 h/week. / English					
Modes of assessment					
final examination or oral talk					
Requirements for the award of credit points					
oral talk (60 min): Presentation with lecture (45 min) + Discussion (15 min)					
Module applicability (in other study programs)					
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Weight of the mark for the final score					
4.17 %					
Module coordinator and lecturer(s)					
Prof. Dr. Erik H. Saenger					