

Reservoir Engineering					
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Module number SE-CO-18	Credits 5 CP	Workload 150 h	Semester[s] 3. Sem.	Duration 1 Semester[s]	Group size 20
Courses a) Reservoir Engineering			Contact hours a) 3 WLH (45 h)	Self-study a) 105 h	Frequency a) each winter
Module coordinator and lecturer(s) Prof. Dr. Erik Saenger a) Prof. Dr. Erik Saenger					
Admission requirements					
Learning outcome, core skills <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 					
Contents a) <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 					
Educational form / Language a) Tutorial (1 WLH) / Lecture (2 WLH) / English					
Examination methods • Oral exam 'Reservoir Engineering' (60 min., Part of modul grade 100 %, Presentation with lecture (45 min) + Discussion (15 min))					
Requirements for the award of credit points <ul style="list-style-type: none"> • Pass module exam 					
Module applicability <ul style="list-style-type: none"> • M.Sc. Subsurface Engineering 					

Weight of the mark for the final score

Percentage of total grade [%] = $5 * 100 * \text{FAK} / \text{DIV}$

FAK: The weighting factors can be taken from the table of contents.

DIV: The values can be taken from the table of contents.

Further Information