

# Modul: Industrielle Mikropaläontologie

Modulnr./-code: MP 20



## 1. Inhalte und Qualifikationsziele

Inhalte	Participants will use a variety of microfossil groups as biostratigraphic chronometers of the Proterozoic and Phanerozoic history of the earth and as paleoenvironmental and paleogeographic indicators. The courses will give participants insight into applied micropaleontological methods that will aid the understanding and application of analytical results when they are dealing with drilled material for academic or industrial purposes and in this respect it should be particularly useful for academic researchers who undertake work for oil companies and students contemplating working in oil exploration and production.
Qualifikationsziele	Marine micropaleontology and biostratigraphy are integral tools in the exploration for oil and gas. The various techniques employed by hydrocarbon industrial micropaleontologists from collecting sample material to applying the analytical results will be discussed and demonstrated in practical exercises. The purpose of the course is to learn how microfossils are applied to study the history of the earth and biology of marine protists. Their analysis requires additional fundamentals: For example, changes in biogeography (patterns) are used to infer climate change (process).

## 2. Lehr- und Lernformen

	LV-Art	Thema	Unterrichtssprache	Gruppengröße	SWS	Workload [h]
	V	Marine Micropaleontology and Biostratigraphy	dt/en	40	1	30
	PrÜ	Industrial Micropaleontology	dt/en	40	2	60
	PrÜ	Case Studies in petroleum exploration	dt/en	40	3	90

## 3. Voraussetzungen für die Teilnahme am Modul

verpflichtend nachzuweisen	-
empfohlen	-

## 4. Verwendbarkeit des Moduls

	Studiengang/Teilstudiengang	Pflicht-/Wahlpflicht	Fachsemester
	M.Sc. Paläontologie	Wahlpflicht	1. oder 3. Semester
	M.Sc. OEP Biology	Wahlpflicht	1. oder 3. Semester

## 5. Voraussetzungen für die Vergabe von Leistungspunkten entsprechend dem ECTS

## 6. ECTS-LP

Studienleistung(en)	-	
Prüfungen und Prüfungssprache	Klausur (dt/en) Protokoll (dt/en)	3 3

## 7. Häufigkeit

## 8. Arbeitsaufwand

## 9. Dauer

Wintersemester <input checked="" type="checkbox"/>	Winter- und Sommersemester <input type="checkbox"/>	180 h	1 Semester
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## Modulorganisation

Lehrende(r)	Langer
Modulkoordinator(in)	Prof. Dr. Martin Langer
Anbietende Organisationseinheit	Institut für Geowissenschaften

## Sonstiges

Literatur	Wird zu Beginn der Veranstaltung vorgestellt.
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