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**Used in course of study**
- Master Postgraduate Programme Renewable Energy > Mastermodule

**Entry requirements**

**Skills to be acquired in this module**

**Module contents**

**Reader's advisory**

**Links**

**Languages of instruction**

**Duration (semesters)**
1 Semester

**Module frequency**

**Module capacity**
unlimited

**Modullevel**
---

**Modulart**
je nach Studiengang Pflicht oder Wahlpflicht

**Lern-/Lehrform / Type of program**

**Vorkenntnisse / Previous knowledge**

**Examination**

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**Final exam of module**

**Course type**
Seminar

**SWS**

**Frequency**

**Workload attendance**
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**Used in course of study**
- Master Postgraduate Programme Renewable Energy > Mastermodule

**Contact person**

**Entry requirements**

**Skills to be acquired in this module**

**Module contents**

**Reader's advisory**

**Links**

**Languages of instruction**

**Duration (semesters)**
- 1 Semester

**Module frequency**

**Module capacity**
- unlimited

**Modullevel**
- ---

**Modulart**
- je nach Studiengang Pflicht oder Wahlpflicht

**Lern-/Lehrform / Type of program**

**Vorkenntnisse / Previous knowledge**

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**Course type**

| SWS | Seminar |

**Frequency**

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**Lern-/Lehrform / Type of program**

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**Course type**

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**Used in course of study**
- Master Postgraduate Programme Renewable Energy > Mastermodule

**Contact person**

**Entry requirements**

**Skills to be acquired in this module**

**Module contents**

**Reader's advisory**

**Links**

**Languages of instruction**

**Duration (semesters)**
- 1 Semester

**Module frequency**

**Module capacity**
- unlimited

**Modullevel**
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**Modulart**
- je nach Studiengang Pflicht oder Wahlpflicht

**Lern-/Lehrform / Type of program**

**Vorkenntnisse / Previous knowledge**

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**Course type**
- Seminar

**SWS**

**Frequency**

**Workload attendance**
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*Used in course of study*  
- Master Postgraduate Programme Renewable Energy > Mastermodule

*Entry requirements*

*Skills to be acquired in this module*

*Module contents*

*Reader's advisory*

*Links*

*Languages of instruction*

*Duration (semesters)*  
1 Semester

*Module frequency*

*Module capacity*  
unlimited

*Modullevel*  
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*Modular*  
je nach Studiengang Pflicht oder Wahlpflicht

*Lern-/Lehrform / Type of program*

*Vorkenntnisse / Previous knowledge*

*Examination*  
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*Course type*  
Seminar

*SWS*

*Frequency*

*Workload attendance*  
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pre011 - Fundamentals of Renewable Energy

Module label: Fundamentals of Renewable Energy
Module code: pre011
Credit points: 12.0 KP
Workload: 360 h

Used in course of study:
- Master Postgraduate Programme Renewable Energy > Mastermodule

Contact person

Entry requirements

Skills to be acquired in this module

Module contents

Reader's advisory

Links
- Languages of instruction: German, English
- Duration (semesters): 1 Semester
- Module frequency
- Module capacity: unlimited
- Modullevel: MM (Mastermodul / Master module)
- Modulart: Pflicht / Mandatory

Lern-/Lehrform / Type of program

Vorkenntnisse / Previous knowledge

Examination
- Time of examination: Final exam of module
- Type of examination: 2 Prüfungsleistungen: Fachpraktische Übungen (Versuchsprotokolle und Übungsaufgaben, Gewicht: 75%) und entweder Hausarbeit (10-15 Seiten) oder Präsentation (15-20 min, Gewicht: 25%)

Course type
- Comment
- SWS
- Frequency
- Workload attendance

Lecture
- Comment: 
- SWS: 2.00
- Frequency: SuSe and WiSe
- Workload attendance: 28 h

Exercises
- Comment: 
- SWS: 4.00
- Frequency: SuSe and WiSe
- Workload attendance: 56 h

Total time of attendance for the module: 84 h
## pre021 - Energy Resources and Systems

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12 / 27
**pre041 - Sustainability of Renewable Energy**

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**Contact person**

**Entry requirements**

**Skills to be acquired in this module**

**Module contents**

**Reader's advisory**

**Links**

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**Lern-/Lehrform / Type of program**

**Vorkenntnisse / Previous knowledge**

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**Total time of attendance for the module**

| Total time of attendance for the module | 56 h |
### Module Details

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### Total Time of Attendance for the Module

| **Total time of attendance for the module** | 56 h |

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# pre061 - Renewable Energy Complementary Topics

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## Languages of instruction
- German
- English

## Duration (semesters)
1 Semester

## Module frequency
- Unlimited

## Module capacity
- Unlimited

## Modullevel
- BC (Basiscurriculum / Base curriculum)

## Modulart
- Wahlpflicht / Elective

## Examination

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2 Prüfungsleistungen:
Das Modul ist unbenotet, jedoch müssen 2 der möglichen Kurse mindestens als 'bestanden' gewertet werden um das Modul zu bestehen. Mögliche Prüfungsformen sind:

- Klausur (1 h), mündliche Prüfung (20 min), Referat (10 Seiten Ausarbeitung + 10 Minuten Präsentation), Hausarbeit (max. 20 Seiten), fachpraktische Übung (max. 8), Seminararbeit (max. 20 Seiten), Portfolio, Präsentation (15 min.)

In Seminaren wird Aktive Teilnahme (siehe Ergänzung zu § 9 Abs. (6) ) gefordert...

## Course type

<table>
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<td>Seminar und Übung</td>
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## Total time of attendance for the module
- 56 h
pre071 - Internship

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Used in course of study
- Master Postgraduate Programme Renewable Energy > Mastermodule

Contact person

Skills to be acquired in this module

Module contents

Reader's advisory

Links

Languages of instruction
German, English

Duration (semesters)
1 Semester

Module frequency

Module capacity
unlimited

Modullevel
BC (Basiscurriculum / Base curriculum)

Modulart
Pflicht / Mandatory

Lern- / Lehrform / Type of program

Vorkenntnisse / Previous knowledge

Examination
Time of examination
Type of examination

Final exam of module
1 Prüfungsleistung: Referat (Präsentation + Diskussion (20min) und Praktikumsbericht (20 Seiten))

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Total time of attendance for the module
84 h
pre081 - Renewable Energy Project

Module label: Renewable Energy Project
Module code: pre081
Credit points: 9.0 KP
Workload: 270 h

Used in course of study:
- Master Postgraduate Programme Renewable Energy > Mastermodule

Contact person

Entry requirements

Skills to be acquired in this module

Module contents

Reader's advisory

Links
Languages of instruction: German, English

Duration (semesters): 1 Semester

Module frequency

Module capacity: unlimited

Modullevel: BC (Basiscurriculum / Base curriculum)

Modulart: Pflicht / Mandatory

Lern-/Lehrform / Type of program

Vorkenntnisse / Previous knowledge

Examination

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Final exam of module
1 Prüfungsleistung: (Gruppen-) Referat (Präsentation 15min und Projekt-Bericht ~15 Seiten)

Course type | Comment | SWS | Frequency | Workload attendance |
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Total time of attendance for the module: 84 h
**pre111 - Photovoltaic Physics**

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**Used in course of study**
- Master Postgraduate Programme Renewable Energy > Mastermodule

**Contact person**

**Entry requirements**

**Skills to be acquired in this module**

**Module contents**

**Reader's advisory**

**Links**

**Languages of instruction**
- German, English

**Duration (semesters)**
- 1 Semester

**Module frequency**

**Module capacity**
- unlimited

**Modullevel**
- BC (Basiscurriculum / Base curriculum)

**Modulart**
- Wahlpflicht / Elective

**Lern-/Lehrform / Type of program**

**Vorkenntnisse / Previous knowledge**

**Examination**

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**Total time of attendance for the module**

- 56 h
# pre112 - Photovoltaics Systems & Meteorology

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**Contact person**

**Entry requirements**

**Skills to be acquired in this module**

**Module contents**

**Reader's advisory**

**Links**

**Languages of instruction** | German, English |
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**Lern-/Lehrform / Type of program**

**Vorkenntnisse / Previous knowledge**

**Examination**

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**Course type**

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**Total time of attendance for the module**

56 h
### pre121 - Wind Energy Converters & Fluid Dynamics

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#### Final exam of module

1 Prüfungsleistung: Klausur (3h) oder Präsentation (30 min.) oder mündliche Prüfung (45 min.) oder fachpraktische Übungen (max. 10) oder Hausarbeit (max. 30 Seiten)

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**Total time of attendance for the module**: 112 h
### pre131 - Design and Simulation of Wind Turbines

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<td><strong>Module frequency</strong></td>
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<tr>
<td><strong>Module capacity</strong></td>
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<tr>
<td><strong>Modullevel</strong></td>
<td>BC (Basiscurriculum / Base curriculum)</td>
</tr>
<tr>
<td><strong>Modulart</strong></td>
<td>Wahlpflicht / Elective</td>
</tr>
<tr>
<td><strong>Lern-/Lehrform / Type of program</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Vorkenntnisse / Previous knowledge</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Examination</strong></td>
<td>Time of examination</td>
</tr>
<tr>
<td><strong>Final exam of module</strong></td>
<td>1 Prüfungsleistung: Klausur (3h) oder Präsentation (30 min.) oder mündliche Prüfung (45 min.) oder fachpraktische Übungen (max. 10) oder Hausarbeit (max. 30 Seiten)</td>
</tr>
<tr>
<td><strong>Course type</strong></td>
<td>Lecture</td>
</tr>
<tr>
<td><strong>SWS</strong></td>
<td>6.00</td>
</tr>
<tr>
<td><strong>Frequency</strong></td>
<td>SuSe and WiSe</td>
</tr>
<tr>
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pre141 - System Integration of Renewable Energy

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<tbody>
<tr>
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<tr>
<td>Credit points</td>
<td>12.0 KP</td>
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<tr>
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<td>Master Postgraduate Programme Renewable Energy &gt; Mastermodule</td>
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<tr>
<td>Contact person</td>
<td></td>
</tr>
<tr>
<td>Entry requirements</td>
<td></td>
</tr>
<tr>
<td>Skills to be acquired in this module</td>
<td></td>
</tr>
<tr>
<td>Module contents</td>
<td></td>
</tr>
<tr>
<td>Reader's advisory</td>
<td></td>
</tr>
<tr>
<td>Links</td>
<td></td>
</tr>
<tr>
<td>Languages of instruction</td>
<td>German, English</td>
</tr>
<tr>
<td>Duration (semesters)</td>
<td>1 Semester</td>
</tr>
<tr>
<td>Module frequency</td>
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<tr>
<td>Module capacity</td>
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<td>Modulelevel</td>
<td>BC (Basiscurriculum / Base curriculum)</td>
</tr>
<tr>
<td>Modulart</td>
<td>Wahlpflicht / Elective</td>
</tr>
<tr>
<td>Lern-/Lehrform / Type of program</td>
<td></td>
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<td>Vorkenntnisse / Previous knowledge</td>
<td></td>
</tr>
<tr>
<td>Examination</td>
<td>Time of examination</td>
</tr>
<tr>
<td>Final exam of module</td>
<td>1 Prüfungsleistung: Referat (Präsentation: 50 min, Ausarbeitung: 5 Seiten) oder Übungen (max. 8). Im Seminar wird Aktive Teilnahme (siehe Ergänzung zu § 9 Abs. (6)) gefordert.</td>
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</table>

<table>
<thead>
<tr>
<th>Course type</th>
<th>Comment</th>
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<th>Frequency</th>
<th>Workload attendance</th>
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</thead>
<tbody>
<tr>
<td>Lecture</td>
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<td>SuSe and WiSe</td>
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<tr>
<td>Seminar</td>
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pre151 - Renewable Energy in Developing Countries

Module label: Renewable Energy in Developing Countries
Module code: pre151
Credit points: 12.0 KP
Workload: 360 h

Used in course of study:
- Master Postgraduate Programme Renewable Energy > Mastermodule

Contact person:

Entry requirements:

Skills to be acquired in this module:

Module contents:

Reader's advisory:

Links:

Languages of instruction: German, English

Duration (semesters): 1 Semester

Module frequency:

Module capacity: unlimited

Modullevel: BC (Basiscurriculum / Base curriculum)

Modulart: Wahlpflicht / Elective

Lern-/Lehrform / Type of program:

Vorkenntnisse / Previous knowledge:

Examination:

Final exam of module:
1 Prüfungsleistung: Seminararbeit (40 S.) oder Referat (Präsentation - 45 Minuten, Ausarbeitung 20 Seiten) Im Seminar wird Aktive Teilnahme (siehe Ergänzung zu § 9 Abs. (6) ) gefordert.

Type of program:

Course type
Lecture
Seminar

Comment
4.00
4.00

SWS

Frequency
SuSe and WiSe
SuSe and WiSe

Workload attendance
56 h
56 h

Total time of attendance for the module: 112 h
### pre034 - Renewable Energy Technologies II

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</thead>
<tbody>
<tr>
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<tr>
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**Used in course of study**
- Master Postgraduate Programme Renewable Energy > Mastermodule

**Contact person**

**Entry requirements**

**Skills to be acquired in this module**

**Module contents**

**Reader's advisory**

**Links**

**Language of instruction**
- English

**Duration (semesters)**
- 1 Semester

**Module frequency**
- ---

**Module capacity**
- unlimited

**Modullevel**
- ---

**Modulart**
- je nach Studiengang Pflicht oder Wahlpflicht

**Lern-/Lehrform / Type of program**

**Vorkenntnisse / Previous knowledge**

**Examination**

<table>
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<th>Frequency</th>
<th>Workload attendance</th>
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<tr>
<td>Seminar</td>
<td>2.00</td>
<td>SuSe or WiSe</td>
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<td>28 h</td>
</tr>
<tr>
<td>Exercises</td>
<td>2.00</td>
<td>SuSe or WiSe</td>
<td></td>
<td>28 h</td>
</tr>
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<td>Practical</td>
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**Total time of attendance for the module**
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pre091 - Transferrable skills

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| Contact person |

| Entry requirements |

| Skills to be acquired in this module |

| Module contents |

| Reader's advisory |

| Links |

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| Module frequency |

| Module capacity | unlimited |

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| Modulart | je nach Studiengang Pflicht oder Wahlpflicht |

| Lern-/Lehrform / Type of program |

| Vorkenntnisse / Previous knowledge |

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<tr>
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<th>Frequency</th>
<th>Workload attendance</th>
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</thead>
<tbody>
<tr>
<td>Lecture</td>
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<td>2.00</td>
<td>SuSe or WiSe</td>
<td>28 h</td>
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<tr>
<td>Seminar</td>
<td></td>
<td>2.00</td>
<td>SuSe or WiSe</td>
<td>28 h</td>
</tr>
<tr>
<td>Exercises</td>
<td></td>
<td>2.00</td>
<td>SuSe or WiSe</td>
<td>28 h</td>
</tr>
<tr>
<td>Practical</td>
<td></td>
<td>2.00</td>
<td>SuSe or WiSe</td>
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| Total time of attendance for the module | 112 h |


Abschlussmodul

mam - Master´s Thesis Module

<table>
<thead>
<tr>
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</thead>
<tbody>
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<td>Entry requirements</td>
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<tr>
<td>Skills to be acquired in this module</td>
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<tr>
<td>Module contents</td>
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<td>Reader's advisory</td>
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<td>Links</td>
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<td>Languages of instruction</td>
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<td>Module frequency</td>
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<tr>
<td>Module capacity</td>
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<td>Modulart</td>
<td>je nach Studiengang Pflicht oder Wahlpflicht</td>
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</table>

| Type of program       |                |
| Vorkenntnisse / Previous knowledge |          |
| Examination            | Time of examination | Type of examination |
| Final exam of module   | G              |
| Course type            | Seminar        |
| SWS                    |                |
| Frequency              |                |
| Workload attendance   | 0 h            |