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| 1 | **Module name**<br>57455 | **Regeneration and sustainable development** | **5 ECTS** |
| 2 | Courses / lectures | Seminar: Regeneration and sustainable development (2 SWS) | 5 ECTS |
| 3 | Lecturers | Dr. Francisco Layrisse Villamizar | |

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| 4 | **Module coordinator** | Prof. Dr. Markus Beckmann |
| 5 | **Contents** | The seminar provides content on the basics of regenerative practices across different industries and context. The course is divided into three general blocks.<br>The first block of sessions will provide context into the importance of regeneration considering the limitations of currents frameworks such as corporate philanthropy, corporate social responsibility and corporate sustainability management.<br>The second block of sessions will concentrate in understanding the regenerative principles, the importance of socio-ecological systems and circularity.<br>The third block of sessions will focus on analysing regeneration/ circularity in practice by looking at:<br>i) Innovative business models that include regenerative practices and/or circularity<br>ii) Transitions towards regeneration in agrofood systems.<br>iii) Industrial ecology and circular practices<br>iv) Risk management practices for climate change<br>Students will have a mid term presentation and final presentation where they will have identify an innovative business model that integrates regeneration/circularity. In addition, they will have to document in detail the aspects of the model. |
| 6 | **Learning objectives and skills** | At the end of the seminar students will be able to:<br>• Criticize and frame the limits of our current system<br>• Articulate the root causes of todays wicked problems<br>• Describe the underlying principles of regeneration and circularity<br>• Define characteristics of regenerative and circular enterprises<br>• Contrast traditional enterprises with innovative business/ practices models based on regeneration and/circularity |
| 7 | **Prerequisites** | Previous courses on sustainability management are recommended but not required. |
| 8 | **Integration in curriculum** | semester: 2;4 |
| 9 | **Module compatibility** | Management Austauschstudium Master Management 1<br>Management Austauschstudium Promotion Management 1<br>Bachelorprüfung Bachelor of Science Wirtschaftsingenieurwesen Elektrotechnik 20182<br>Modulbereich: International corporate sustainability Master of Science International Business Studies 20172<br>Vertiefungsbereich Master of Science Management 20192<br>Vertiefungsbereich Master of Science Management 20232 |

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| | | Freier Vertiefungsbereich Master of Science Sozialökonomik 20172<br>Wahlmodul: Spezielle BWL Master of Science Sozialökonomik 20172<br>Freier Vertiefungsbereich Master of Science Sozialökonomik 20222<br>Wahlmodul: Spezielle BWL Master of Science Sozialökonomik 20222<br>Wirtschaftswissenschaftlicher Bereich Master of Science Wirtschaftsingenieurwesen Elektrotechnik 20212<br>Wirtschaftswissenschaftlicher Vertiefungsbereich Master of Science Wirtschaftsingenieurwesen Elektrotechnik 20251<br>Wirtschaftswissenschaftlicher Bereich Master of Science Wirtschaftsingenieurwesen Elektrotechnik 20252<br>Wirtschaftswissenschaftlicher Bereich Master of Science Wirtschaftsingenieurwesen 20182<br>Wirtschaftswissenschaftlicher Bereich Master of Science Wirtschaftsingenieurwesen Maschinenbau 20212<br>Wirtschaftswissenschaftlicher Vertiefungsbereich Master of Science Wirtschaftsingenieurwesen Maschinenbau 20251<br>Wirtschaftswissenschaftlicher Bereich Master of Science Wirtschaftsingenieurwesen Maschinenbau 20252<br>Nebenfach Wirtschaftswissenschaften Master of Science Wirtschaftsmathematik 20192 |
| 10 | **Method of examination** | Written assignment<br>Presentation<br>Term paper: 25 pages, presentation: 18 minutes |
| 11 | **Grading procedure** | Written assignment (50%)<br>Presentation (50%) |
| 12 | **Module frequency** | Only in summer semester |
| 13 | **Workload in clock hours** | Contact hours: 30 h<br>Independent study: 120 h |
| 14 | **Module duration** | 1 semester |
| 15 | **Teaching and examination language** | english |
| 16 | **Bibliography** | All necessary materials will be provided via StudOn |