

	Module	Technological Impact Entrepreneurship for Development	5 ECTS
1	Lecture	<p>S: Technological Impact Entrepreneurship for Sustainable Development - Design, Market, Impact</p> <p>Block seminar, on-site attendance (mandatory):</p> <p>Kick-off 19. and 20.04.24 (08:00h – 16:30h, and 09:00 – 16:30h)</p> <ul style="list-style-type: none"> - 19.04.24 General kick-off, including Professors - 20.04.24 Kick-off for teamwork under supervision of teaching assistants <p>Interim presentation 24.05.24 09:00h – 12:00h</p> <p>Final presentation 21.06.24 09:00h – 13:00h</p>	
2	Lecturers	Professors: Prof. Dr-Ing. Martin März, Prof. Dr. Andreas Landmann, Prof. Dr. Markus Beckmann and teaching assistants	

3	Module Responsibility	<p>According to Faculty:</p> <p>Prof. Dr. Markus Beckmann (ReWi)</p> <p>Prof. Dr. Andreas Landmann (Phil)</p> <p>Prof. Dr.-Ing. Martin März (Tech)</p>	
4	Content	<p>This seminar brings together students from the fields of Energy Systems/Power Electronics, Development Economics and Management. At this intersection, students work on a technical innovation for power supply and usage in regions with acute energy poverty, develop a business model for marketing the innovation, investigate its developmental economic impact, and assess possible strategies for evaluating its impact.</p> <p>In a multidisciplinary effort and under supervision of the three involved faculties, the teams will form a fictional start-up to design and market a product or service while measuring its economic, social, and ecological impact. Possible solutions include energy generation and transmission, electricity storage and remote maintenance. However, students are encouraged to come up with their own innovations. The aim is to find a marketable solution that can be sold to firms in rural areas, enabling them to apply the technology to their specific (infra)structural context, either in Europe or abroad.</p> <p>During the seminar kick-off, students will deepen their existing disciplinary knowledge to later work effectively in the multidisciplinary teams (each team has at least one member from each of the three faculties). The kick-off introduces the relevant theory to enable the students to enter more deeply through self-study. In the first four weeks of the course, the teams are supported by the respective chairs in demand-oriented online</p>	

		<p>work-sessions, receiving feedback on their progress and answers to their questions within and between the academic disciplines.</p> <p>In an interim presentation, the participants can then present their progress and give and receive feedback on theory application and practical relevance of the developed solutions. The second half of the seminar allows to incorporate feedback and further develop the product/service.</p> <p>The course ends with a final presentation (50% of the final grade), in which the proposed solution will be presented by the students and discussed with the professors. Two weeks after the final presentation, each team submits a project documentation (50% of the final grade), describing theory and application of their solution.</p>
5	<p>Learning Goals and Competencies</p>	<p>Students</p> <ul style="list-style-type: none"> • Acquire and deepen knowledge of the three areas of electrical engineering (specifically power electronics in the field of renewable energy), development economics and (impact) entrepreneurship. • Get a deep dive into their own field of study but a good overview of the other two segments and understand the dependencies. • Address issues regarding the definition and measurement of economic, social and environmental impact and how these can be integrated into the corporate mission. • Learn through multidisciplinary collaboration the interdependence of decision criteria (product ↔ production ↔ energy demand and generation ↔ market entry planning ↔ business plan ↔ sustainability) • Can independently create a practice concept for an impact enterprise in cooperation with a wide variety of fields. • Can understand, describe, and compare impact entrepreneurship as an entrepreneurial problem-solving approach for social challenges. • Consider local contexts within which innovations generate impact. • Acquire argumentation competence and critical reflection in their own subject discipline and can understand socially relevant issues by combining different logics and explain them within working groups. • Develop interdisciplinary feedback competences. • Can give presentations relevant to practice. • Can process complex questions analytically and make pragmatic decisions. • ...
6	<p>Prerequisites for participation</p>	<p>Basic knowledge in one of the following fields: power electronics, development economics, management</p>

7	Fit into model curriculum	B.A. (1 Fach) International Business Studies B.Sc. International Business Studies B.A. (1 Fach) Sozialökonomik B.A. (1 Fach) Wirtschaftswissenschaften B.Sc. Wirtschaftsingenieurwesen
8	Application	Via the application-group on StudOn https://www.studon.fau.de/crs5673007_join.html 8 WiSo-seminar slots available (24 students in total)
9	Course requirements and examination	Course requirements (Studienleistung): Mandatory presence at the kick-off days, interim presentation and final presentation. Examination: Final presentation (50% of grade) and Documentation (50% of grade)
10	Grading	Final presentation incl. discussion: 50% Documentation: 50%
11	Frequency	Each summer semester
12	Workload	In presence: 30h Self-study: 120h
13	Duration of the module	Start and end of the module within the lecture period
14	Language	English (Group work can be done in German, should the team agree on it)
15	Preparatory literature	Additional materials will be provided via StudOn and in the course