

Annex 1 to the Addendum for Double Master's Degrees between Universidad Politécnica de Cartagena and Universität Stuttgart
Double Master's Degree Scheme

The attached MACROPLAN depicts the 2-year MSc double degree structure in **Energías Renovables at the Universidad Politécnica de Cartagena** and in **Energietechnik at the Universität Stuttgart**. It shows the compulsory and elective modules in each semester as well as the prerequisites for students wishing to spend their 2nd year at the partner institution.

Appendix A: Details of study plan

1. Semester		2. Semester		3. Semester		4. Semester	
UPCT students at UPCT	Stuttgart students in Stuttgart	UPCT students at UPCT	Stuttgart students in Stuttgart	Stuttgart students at UPCT	UPCT students in Stuttgart	Stuttgart students at UPCT	UPCT students in Stuttgart
Energy and Sustainable Development (compulsory), Part I	C2 equivalent: Energiewirtschaft und Energieversorgung 6 ECTS	Energy and Sustainable Development (compulsory) Part II 3 ECTS	C1 equivalent: Energie- und Umwelttechnik 6 ECTS	Energy and Sustainable Development (compulsory), Part I		Energy and Sustainable Development (compulsory) Part II 3 ECTS	
5 Semi compulsory Basics Module II (each 6 ECTS)	C4 equivalent: Grundlagen der Heiz- und Raumlufttechnik 6 ECTS	2 Semi compulsory Basics Module II (each 6 ECTS) and 5 subject of Specialisation Module III (each 3 ECTS)	Industriepraktikum 12 ECTS	Completion of ETSII-UPCT Ren. Energy Master required total of Semi-Compulsory Module II or (if already completed) Subject from Specialisation module III Total 27 ECTS	Industrial Placement 12 ECTS	Master Thesis 18 ECTS	Master Thesis 30 ECTS
or 4 Semi compulsory Basics Module II (each 6 ECTS) and 2 subject of Specialisation Module III (each 3 ECTS)	2 Semi-compulsory Modules (Vertiefungsmodule) from List 3 each 6 ECTS		Studienarbeit (Independent Study Project) 12 ECTS		One area of specialization from Energietechnik Modules in Specialised Areas at USTUTT 18 or 15* ECTS		
	1 Core Module of Specialization from List 4 6 ECTS	3 Semi compulsory Basics Module II (each 6 ECTS) and 3 subject of Specialisation Module III (each 3 ECTS)			* If 15 then 1 Soft Skills e.g. Language (German, English) or Communication 3 ECTS (to be taken to complete 30 ECTS)		
Σ CP= 30	Σ CP= 30	Σ CP= 30	Σ CP= 30	Σ CP= 27	Σ CP= 30	Σ CP= 33	Σ CP= 30

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