







German-Argentinean Programm Bi-National Master with Double Title

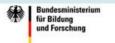
Industrial Informatics (II)

Spezialisation: Industrial Cyber-Physical Systems

Bi-National Master in Industrial Informatics

Spezialization: Industrial-Cyber-Physical Systems











Where are Emden and Santa Fe?







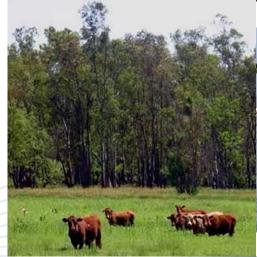




Santa Fe, ~470 km North-West from Buenos Aires







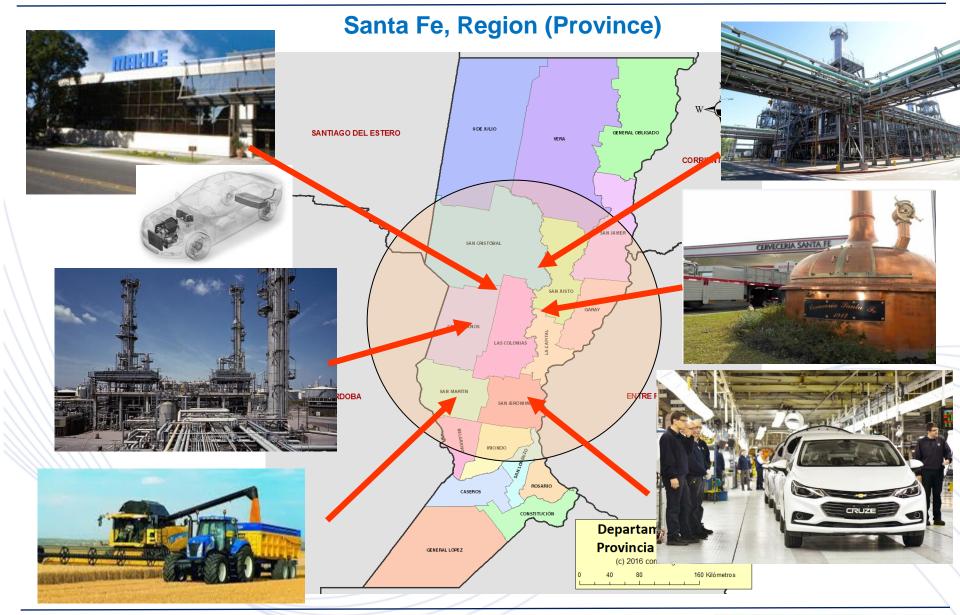
















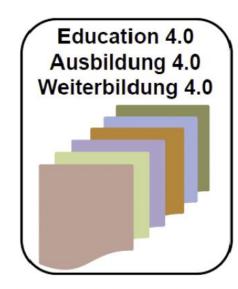


Basic Knowledge composing the curriculum of the Bi-national Master II - ICPS

- Digitalisierung der Produktion
- -Cyber-physikalische Komponenten
- (I4.0-Komponent) / Dinge / Dienste)
- -Internet-der-Dinge (IoT)
- -Internett-der-Dienste (IoS)
- · Referenzarchitekturen
 - RAMI4.0

(Referenzarchitektturmodell Industrie 4.0)

- IIRA (Industrial Internet Reference Architektur)
- ISA'88
- ISA'95
- Engineering Industrie 4.0-fähige Lösungen
- -Lifecycle Engineering
- -Virtualisierung von industriellen Systemen
- -Simulation (Methoden und Werkzeugen)



- · Big Data
- -Analytics
- -IMS, MES, WMS, EMS (Funktionen mit Big Data)
- -Cloud Computing
- -Serviceorientierte Architektur (SoA)
- -Multiagent Technology

- Vernetzung der Produktion
- -Industrial Internet Reference Architektur
- -Systeme-aus-Cyber-physikalischen Systemen
- -Konnectivität und Interoperabilität
 - >- Vertikale Enterprise
 - >- Horizontale Value Chain
 - >- Lifecycle Engineering
- Daten- und Informationsmodelle (OPC-UA, B2MML, PackML, AutomationML, VASS, FAST, ISA95-ML)
- Information-Kommunikation-Kontrolle-Technologien (IKT)
- Mensch-Maschine-Integration 4.0
- -Industrie 4.0, Innovationsprozesse
- -Industrie 4.0 Businessmodelle



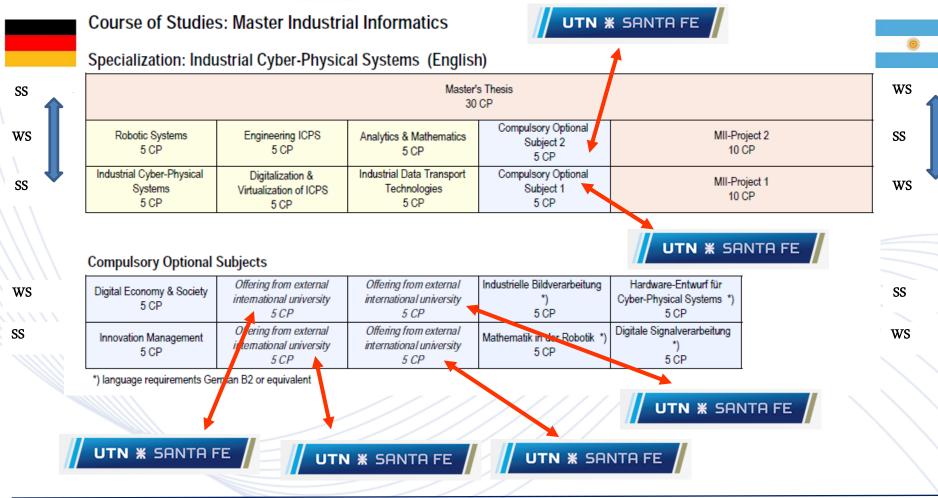






Integrated Curriculum between HSE/L and UTN-FRSF





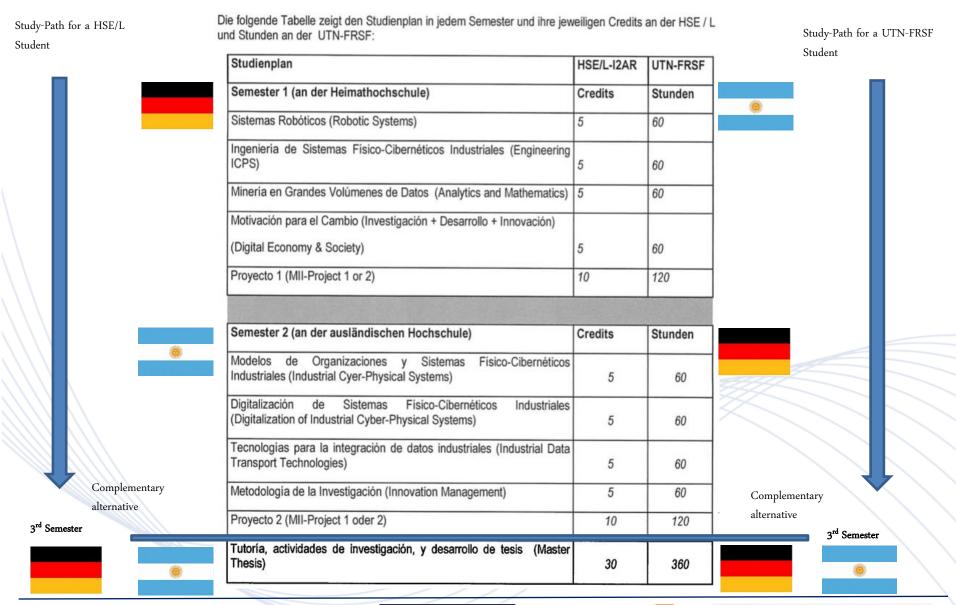








Spezialization: Industrial-Cyber-Physical Systems







Some practical information about the program

- Maximum 3 students per year of the degree course Master in Industrial Informatics / Specialisation Industrial-Cyber-Physical-Systems
- Student has to be immatriculated in Emden (MII ICPS)
- Student approves the Semester 1 in Emden
- > Semester 2 or Semester 2 and 3 (including Master Thesis) in Argentina
- The student gets Double Title (from German and Argentinean University). Both programs have been accredited
- Language of Instruction in Argentina: English
- Prerequisites: Spanisch language, at least A1 before departure
- Students get 1.500 Euro travel grant and 1.075 Euro per month for subsistence expenses
- > Exchange of teachers and staff is financed as well





Some practical information about the program

- Application Procedure
 - ✓ Interested students have to contact the responsible professor at the home institution expressing their intention to apply for the program until Middle of October / Middle of March
 - ✓ Official application until end of October / end of May in order to start the 2nd semester in the other country
 - ✓ Beginning of November/Beginning of June: selection committee decides about admission

✓ Status quo: October 25th, 2019 (changes are possible)





Contact at HSEL

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Vielen Dank!!

Muchas gracias!!











