



Double degree Master in Industrial Informatics specializing in Industrial Cyber-Physical Systems full-time / Maestría binacional en Sistemas Físico-Cibernéticos Industriales mit der Universidad Tecnológica Nacional-Facultad Regional Santa Fe, Argentinien (UTN-FRSF)

Information for students of the University of Applied Sciences Emden / Leer

Status January 2020

Overview data	
2 degrees	From the HSEL: Master of Engineering (M.Eng): Master Industrial Informatics, Specialization: Industrial Cyber-Physical Systems From the UTN-FRSF: Magister en Informática Industrial, mención Sistemas Físico-Cibernéticos Industriales
Faculty at the HSEL	Faculty of Technology/ Department of Electrical Engineering and Computer Science
Degree courses at the HSEL	Master in Industrial Informatics with specialization in Industrial Cyber-Physical Systems
Number of semester	3 Semester
Stay abroad duration	1-2 Semester (in 2 nd and optional in 3 rd Semester)

Number of maximum number of students in the academic year	3 students
Project coordinator in Germany Email address	Prof. Dr.-Ing. Armando Walter Colombo awcolombo@technik-emden.de
Project assistant	Andrea Meyenburg, M.A. Head of International Office Andrea.Meyenburg@hs-emden-leer.de
Partner university in Argentinien	Universidad Tecnológica Nacional- Facultad Regional Santa Fe
Language of the regular courses at both universities	English

Syllabus	HSE/L-I2AR	UTN-FRSF
Semester 1 (at the home university)	credits	hours
Sistemas Robóticos (Robotic Systems)	5	60
Ingeniería de Sistemas Físico-Cibernéticos Industriales (Engineering ICPS)	5	60
Minería en Grandes Volúmenes de Datos (Analytics and Mathematics)	5	60
Motivación para el Cambio (Investigación + Desarrollo + Innovación) (Digital Economy & Society)	5	60
Proyecto 1 (MII-Project 1 or 2)	10	120
Semester 2 (at the guest university)	credits	hours
Modelos de Organizaciones y Sistemas Físico-Cibernéticos Industriales (Industrial Cyber-Physical Systems)	5	60
Digitalización de Sistemas Físico-Cibernéticos Industriales (Digitalization of Industrial Cyber-Physical Systems)	5	60
Tecnologías para la integración de datos industriales (Industrial Data Transport Technologies)	5	60
Metodología de la Investigación (Innovation Management)	5	60
Proyecto 2 (MII-Project 1 oder 2)	10	120

Semester 3 (in Argentina oder Germany)	credits	hours
Tutoría, actividades de investigación, y desarrollo de tesis (Master Thesis)	30	360

Application procedures

The application is gradual: until the middle of October or mid-March, the project manager, Prof. Dr.-Ing. Colombo will be contacted. Enrolled students of the University of Emden/Leer can apply via the International Office until May 31st or November 30th, depending on whether they are in the winter or summer semester

(see <https://idp.hs-emden-leer.de/idp/profile/SAML2/Redirect/SSO?execution=e2s1>)

The selection committee then examines the application documents and decides on the inclusion of the respective student in the double degree program. Subsequently, the documents of the selected students are forwarded to the partner university. The registration documents are sent by the partner university.

Selection documents

To be submitted online for the International Office:

Certificate of enrollment for Industrial Informatics, grades from the Bachelor program, letter of motivation, photo, curriculum vitae and English and Spanish certificate (or proof of course attendance) as well as a declaration of consent that the application documents for the Industrial Informatics program are also available for the selection on the Argentina program may be used.

Language acquisition

Students have to take a basic course in Spanish before beginning their stay in Argentina. According to agreement, a corresponding course can be taken either at the university of Emden/Leer (level at least A1) or, if necessary, also by external providers (for example online). For this please contact the International Office. During the stay abroad at the partner university the Level A2 has to be reached. Further language acquisition is voluntary, but recommended.

Length of stay

The stay of the students consists of 5 months study and (optionally) 6 months to write the master thesis.

The semester times at the UTN are February to June and August to December.

Thesis

The master's thesis is written in English and is supervised jointly by professors from both universities. In addition, the student must perform a public oral defense of the thesis in the language (English, German or Spanish) agreed with the relevant supervisors and reviewers.

Recognition of credits

The recognition of the credits acquired abroad takes place via the Learning Agreement, which must be completed prior to the stay abroad.

Financial support

For the return flight to Argentina, the German-Argentinian University Center (DAHZ) is sponsoring the trip with a flat rate of € 1,500.00. For the stay (probably) a monthly lump sum of 1,075 euros per month granted. The funds are paid out via the University of Applied Sciences Emden/Leer/International Office.

Entry requirements

Please inquire in good time at the Argentine Embassy:

For the entry and the application for a visa in Argentina a valid passport is necessary!

Further information at:

<https://ealem.cancilleria.gob.ar/de/node/4396>

Argentina Embassy in Berlin, Germany
Kleiststrasse 23-26
10787 Berlin Germany
Phone: (+49) 30 22 66 890
Fax: (+49) 30 22 91 400

E-Mail: info@embargent.de
Website: www.embargent.de

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Bundesministerium
für Bildung
und Forschung

All information is subject to change.