

Curriculum

The training project completes the first level degree in Information Engineering and in Industrial Engineering.
The aim is to develop deep know-how in production and services areas and applied research, with particular attention to logistic, manufacturing and services problems.

Subjects

Technology and production systems
Industrial mechanical plants
Economics and management engineering
Sciences and technology of materials
Systems for energy and environment
Applied physics
Numerical analysis
Internship
Final examination

Career opportunities

Graduates in Production Engineering and Management will have thorough knowledge to carry out professional activities in manufacturing firms and public administration, such as **management control, strategic consulting, ITC management, technological and production planning, supply chain management, production processes and services, and logistics management**



Welcome to Pordenone

Pordenone is a particularly lively and active city, both economically and culturally, in the Centre of a strategic area for development and the cultural exchange .

The campus

in a quiet area close to the city centre, is surrounded by greenery and includes various sporting facilities. In addition to classrooms, there are also available library, photography and audio/video installation, 6 computer labs, 4 special laboratories, including those of mechatronics and mobile movie direction, the secretariats, the canteen and other useful services. The classrooms are all equipped with air conditioning, technologically advanced audio and video facilities; internet connection is available to wireless broadband and the Centre is also equipped with facilities for videoconferencing. 96 beds are available in the students' residence.

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CONSORZIO
UNIVERSITARIO
DI PORDENONE



Hochschule Ostwestfalen-Lippe
University of Applied Sciences

www.unipordenone.it
www.units.it
www.hs-owl.de

Università degli Studi di Trieste



Hochschule Ostwestfalen-Lippe
University of Applied Sciences



CONSORZIO
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Production Engineering and Management Double Degree MSc at Pordenone

University of Applied Sciences,
Hochschule Ostwestfalen Lippe (Germany)
and the University of Trieste



Moltiplicatore di valore

The International MSc in Production Engineering and Management prepares **managers and executives for Small Medium Scale Enterprises (SMSE).**

The common curriculum arranged by the University of Applied Sciences OstWestfalen – Lippe and the University of Trieste, offers students to study for a semester at a different university site and to gain personal experience in an international contest. Courses are held in English.

The emphasis is on manufacturing operations, especially in the wood-furniture industry, metalworking and plastics.

Graduates acquire the information needed for this industrial areas, as well as technical and economic knowledge and skills. The International "Production Engineering and Management" course program aims to satisfy the specific needs of Small Medium Scale Enterprises (SMSE) in the Regions of OstWestfalen-Lippe, Friuli-Venezia Giulia and North-East Italy.

The Degree program provides advanced preparation in the field of Industrial Engineering and Management, which incorporates adequate knowledge and skills already gained in the first level graduation.

Training objectives

The graduates taking part in the MSc degree course programs must:

- Have knowledge of mathematics and other basic sciences;
- Have knowledge of engineering;
- Be able to conceptualise, plan, design and manage complex and/or innovative systems, processes and services;
- Be able to design and manage highly complex experiments;
- Have knowledge in business organization and professional ethics;
- Be fluent in both written and oral forms of at least one European language other than Italian, with particular reference to vocabulary.

The main job opportunities provided by the degree courses are:

innovation and production development, advanced design, planning and scheduling, management of complex systems, both in professional services firms and in manufacturing, or in service enterprises and public administrations.

The University will organize periods of training and internships in agreement with public and private companies

Professional Profile

The course is intended to qualify top management position in the production operations of medium-sized national and international companies.

It is focused on functional areas of management and planning, development, production control, sales techniques, logistics, quality control.

Educational goals

The Graduate Engineer in Production Engineering and Management understands technology and model complex systems. The Engineer in Production Engineering and Management will be able to cope with methodologies and procedures of high complexity and diversity, where the human element and economic and organizational issues intimately interact with technologies.

Knowledge and understanding

MSc graduates will be competent both in the basic and in applied disciplines. The assessment includes the in-depth knowledge of methodological and operational management and production engineering in order to identify, to formulate and to solve the typical problems of the enterprise environment and of the corporate culture in its economic, managerial, logistical and organizational aspects.

Required skills

For the admission to the Double Degree Program, a minimum mark attained in the first-cycle study program and/or other enrolment conditions are required by Partner Universities to ensure that only qualified student could be admitted. Communication skills are assessed through interviews.

Final examination

The final examination is based on a discussion with a Commission, about a written final thesis, concerning the following areas:

- An original design activity;
- A study on a topic of basic or of applied research;
- An experimental research carried out in university laboratories or in external institutions.

The Italian daily economic newspaper “Il Sole 24 Ore” reports “The engineering degree is at the top of the list of qualifications required by the market. In fact three years after the thesis defense, 89% of young graduates in management engineering are employees.”

To all students

UNITS will issue

Diploma di Laurea Magistrale Università di Trieste

Diploma Supplement in Italian and English will be referred to as “Didactic Activities carried out at HS OWL”

HS-OWL will issue

Urkunde (Diploma) HS Ostwesfalen-Lippe Master Degree

Zeugnis (Certificate) in German

Diploma Supplement in German

Diploma Supplement in English

Transcript of Records (in German/English)

Didactic activities organised in two academic years, each of which is divided in two semesters:

| | |
|---------|-------------------------------|
| HS-OWL: | winter semester 01.09 - 28.02 |
| | summer semester 01.03 - 31.08 |
| UNITS: | winter semester 01.10 - 28.02 |
| | summer semester 01.03 - 30.09 |

The program aims to deliver two MSc degrees: students of one university will attend the other university for one semester.