

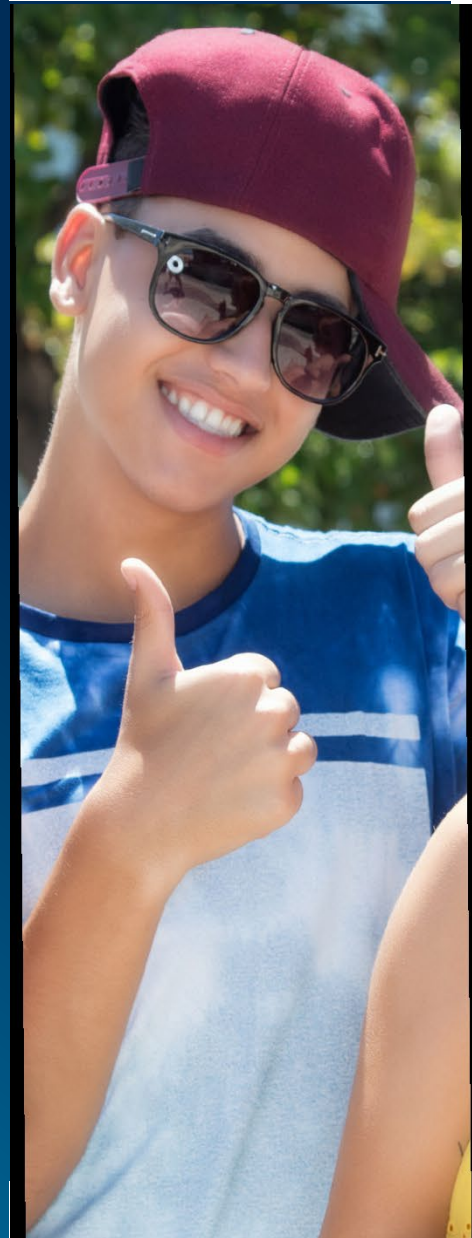
UNIVERSITY OF APPLIED SCIENCES, ESSLINGEN

SUMMERSCHOOL 2019
AT THE FACULTY OF MANAGEMENT

TECHNICAL FOUNDATION FOR
INTERNATIONAL STUDENTS

A 4 WEEK CREDIT BEARING PROGRAM

SEPTEMBER 2019



SUMMERSCHOOL AT THE FACULTY OF MANAGEMENT

TECHNICAL FOUNDATION FOR INTERNATIONAL STUDENTS

A 4-WEEK CREDIT-BEARING PROGRAM IN ESSLINGEN, GERMANY

LIMITED NUMBER OF PLACES: 20

- | Opportunity for International Management students to study abroad for one month and acquire sound technical knowledge
- | Choose from several high-quality courses in English with emphasis on technical foundation
- | Learn German and gain cultural insights together with other international students from all over the world

SUMMERSCHOOL AT THE FACULTY OF MANAGEMENT

Multinational Companies and Global Industries require experts who are able to build **bridges between technology and management** know-how and help integrate different company operations and departments.

In the Summerschool, students acquire fundamental technical skills and engineering knowledge that broaden their understanding of a **technical business economist** who works in an industrial environment, at the interface between technical and business areas.

Course Offer:

- Material Science
- Statics and Strength of Materials
- Manufacturing Technology

- Application deadline: 30th of June 2019
- Arrival day: 01. 09. 2019
- Cost for student: semester fee 101,40 € + cost for excursions
- Course dates: 02.09. – 27.09.2019
- Entry requirements: Health Insurance, English language level B2, existing enrollment at home university

SUMMER SCHOOL AT THE FACULTY OF MANAGEMENT

CHOICE OF COURSES

ALL COURSES ARE AT BACHELOR'S LEVEL, FULL-TIME AND WORTH 6 ECTS

Subject	Workload	Tutorial	Credits
Material Science	20 h	10 h	2
Statics and Strength of Materials	20 h	10 h	2
Manufacturing Technology	20 h	10 h	2

Content:

- I Fundamentals of Material Science and their application in Vehicle and Mechanical Engineering.
- I Fundamentals of Statics and Strength Theory and their application in Vehicle and Mechanical engineering.
- I Manufacturing Processes and their application in Vehicle and Mechanical Engineering.

SUMMER SCHOOL SCHEDULE - SEPT. 2019

THE TIMETABLE IS SUBJECT TO CORRECTIONS

Monday, 02.09.	Welcome Day and Tour of Esslingen - Organisation of your stay					
Tuesday, 03.09.	8.30 - 11.45	Material Science	13.00 - 14.30	Pay Office and Health Insurance	Free time	
Wednesday, 04.09.	8.30 - 11.45	Material Science	13.00 - 14.30	Manufacturing Technology	Free time	
Thursday, 05.09.	8.30 - 11.45	Material Science	13.00 - 16.00	Tutorial		
Friday, 06.09.	8.30 - 11.45	Manufacturing Technology	13.00 - 14.30	Manufacturing Technology		
Monday, 09.09.	08.30 - 11.45	Manufacturing Technology	13.00 - 14.30	Material Science	15.00-16.30	Tutorial
Tuesday, 10.09.	08.30 - 11.45	Manufacturing Technology	13.00 - 14.30	Material Science	15.00-16.30	Tutorial
Wednesday, 11.09.	08.30 - 11.45	Manufacturing Technology	13.00 - 14.30	Material Science	15.00-16.30	Tutorial
Thursday, 12.09.	08.30 - 11.45	Statics & Strength	13.00 - 14.30	Material Science		
Friday, 13.09.	08.30 - 11.45	Statics & Strength	13.00 - 14.30	Tutorial		
Monday, 16.09.	8.30 - 11.45	Statics & Strength	13.00 - 14.30	Tutorial		
Tuesday, 17.09.	8.30 - 11.45	Orientation Programm - International Office	13.00 - 14.30	Tutorial	15.00	IO Welcome Event
Wednesday, 18.09.	8.30 - 11.45	Orientation Programm - International Office	13.00 - 14.30	Tutorial		
Thursday, 19.09.	8.30 - 11.45	Statics & Strength	12.00	Computer Labs and Internet Access		
Friday, 20.09.	8.30 - 11.45	Statics & Strength		Tutorial		
Monday, 23.09.	9.00 - 13.00	German Class		Exam Preparation/Self Study		
Tuesday, 24.09.	9.00 - 13.00	German Class		Exam Preparation/Self Study		
Wednesday, 25.09.	9.00 - 13.00	German Class		Exam Preparation/Self Study		
Thursday, 26.09.	9.00 - 13.00	German Class		Exam Preparation/Self Study		
Friday, 27.09.	9.00 - 13.00	German Class	14.00-16.00	Final Exam		

COURSE DESCRIPTION

MATERIAL SCIENCE

LEARNING TARGETS:

- | Students will understand important materials and their construction, properties, meaning and applicability
- | Students will understand the relationship between internal structure and functional properties of materials
- | Students can assess opportunities to further process materials
- | Students will understand the possibilities and limitations of different material groups
- | Students will have in-depth knowledge of ferrous metals

COURSE DESCRIPTION

MANUFACTURING TECHNOLOGY

LEARNING TARGETS:

- | Students will learn the six main groups of manufacturing processes (casting, forming, separating, joining, coating and modifying material properties)
- | Students will get to know the subcategories of the first three main groups of manufacturing processes
- | Students will learn both traditional and innovative processes and their respective characteristics
- | Students will identify boundary conditions for the technical and economical use of processes
- | Students will assemble several manufacturing processes to process chains for typical automotive components
- | Students will understand the relationship of Manufacturing Technology to Material Science and Statics and Strength

COURSE DESCRIPTION

STATICS AND STRENGTH OF MATERIALS:

LEARNING TARGETS:

- | Students will analyze systems of forces (decomposition and assembly of forces)
- | Students will recognize and calculate the resulting effect of multiple forces and torques
- | Students will mathematically and graphically determine unknown forces in even central force systems
- | Students will determine unknown forces in even general force systems
- | Students will calculate internal stresses in components for the base load cases
- | Students will understand and assess component's failure mechanisms

APPLICATION

The following documents are required for your application:

- Curriculum vitae
- Copy of existing Health Insurance and Enrollment at your Home University
- Proof of English proficiency

- Please send your documents either in digital or printed form no later than the 30 th of June 2019 to:

- E-Mail: auslandsbeauftragte-bw@hs-esslingen.de

Hochschule Esslingen
Fakultät Betriebswirtschaft
Flandernstrasse 101
73732 Esslingen
Germany

- You will be informed if your application was successful – GOOD LUCK!!!