1. Programme Goal
The International Summer University 2019 programme is an intensive interdisciplinary four-week programme where students will take academic courses in different fields of German engineering, while simultaneously attending intensive German Language courses. This programme is primarily designed to provide an insight into the broad field of German cutting-edge engineering, help improve the participants’ German language skills and to allow students to discover and understand more about the German culture. Students will focus on selected and highly relevant problem areas, whereby tailor-made modules allow students to develop a deeper understanding in the chosen field of study by focusing specifically in these areas of engineering. In the first two week students will be able to choose between automotive engineering or aeronautical engineering courses followed by the continuation of courses in the last two weeks either in mechatronic engineering or production engineering.

During the International Summer University programme, students will work together with other international students to find solutions to complex practical tasks. The various engineering courses offer students the opportunity to gain an insight into the latest research findings by combining lectures with interactive workshops and group presentations. In addition, students will have several opportunities during company visits, such as: Mercedes-Benz, Continental AG, Merck Chemical Engineering Company and EUMETSAT (European Organisation for the Exploitation of Meteorological Satellites) to get hands on experience within the field of engineering. By participating in such activities, students are able to not only improve their intercultural communication skills but also get a first look into future employment opportunities within the field of German engineering.

2. Programme Prerequisites
The International Summer University: German Engineering and Language programme has no formal prerequisites, however, please note the following:

**German Language**
No German language skills are required. However, for participants with advanced German language skills, classes with a higher level of German will be offered.

**Intercultural Competence Training (ICT): Working and Studying in Germany**
Cultural awareness is an asset, but not required.
Lecture Series: Engineering Courses

The participants must be enrolled as full-time students at their home university. Students are expected to apply via our online application portal and attach the most recent version of their transcript of records, CV as well as a motivation letter explaining why they want to participate in the International Summer University programme.

This programme will be most useful to undergraduate students with an interest or previous knowledge in Mechanical Engineering. Students studying in similar subject areas within the field of Engineering and Sciences are however also welcome to apply.

3. Programme Structure and Course Descriptions

Outside of class time, students are expected to: complete the assigned reading and complete homework assignments as well as prepare for workshops and final examinations.

Basic German I – CEFR Level A1, A2 & B1 / 4 ECTS – 2 US/CAN Credits

Course Description:
These courses are designed to teach German speaking, reading, writing and listening skills as well as to introduce vocabulary based on the topics covered in the engineering courses. Texts within the given subject areas will be accompanied by various controlled speaking and writing exercises as well as a number of open discussions.

Level A1 is the lowest level of generative language use. The learner will be able to interact in a simple way to fulfill their everyday basic needs. This course serves as a first introduction to the German language.

Course Goals and Objectives: Level A1 / CEFR
Based on the Common European Framework of Reference (CEFR), the goal of this course is for students to be able to understand and use familiar expressions and very basic phrases aimed at meeting their everyday needs.

Students will be able to introduce themselves and others and can ask and answer questions about personal details such as, where they live, people they know and things they have.
Students will be able to interact through basic conversation in a simple way, provided the other person talks slowly and clearly and is prepared to help.

Level A2 is the level of basic language use. The learner will be able to understand and produce common sentences and phrases of every day communication in familiar contexts.

Course Goals and Objectives: Level A2 / CEFR
Based on the Common European Framework of Reference (CEFR), the goal of this course is for students to be able to understand and use familiar everyday expressions and phrases aimed at the exchange of simple information.
Students will be able to converse about themselves, their families, shopping, work and their environment. Students will be able to exchange information in routine situations about their basic needs in a grammatically simple yet efficient way.

Level B1 reflects the level specification for a visitor to a foreign country. The learner is able to communicate coherently about familiar topics and experiences.

**Course Goals and Objectives: Level B1 / CEFR**

Based on the Common European Framework of Reference (CEFR), the goal of this course is for students to be able to understand main points of clear standard input on familiar matters regularly encountered in work, school, leisure, etc.

Students will be able to deal with most situations that are likely to arise in every day routines and situations likely to arise whilst travelling in an area where the language is spoken.

Students will be able to produce simple connected texts on topics which are familiar or of personal interest. They will also be able to describe experiences and events, dreams, hopes and ambitions, and briefly give reasons and explanations for opinions and plans.

**Course Structure:** 14 units / 4 weeks = 56 units of 45 minutes each.

**Prerequisites:** none/A1/A2, depending on the class the student chooses.

**Learning Outcomes:**

<table>
<thead>
<tr>
<th>Functions</th>
<th>Grammar</th>
<th>Lexis</th>
<th>Discourse Markers</th>
<th>Topics/Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Directions</td>
<td>Adjectives: in their predicative function</td>
<td>Actions of daily life</td>
<td>Connecting words: und, aber, oder, dann, danach</td>
<td></td>
</tr>
<tr>
<td>Describing habits and routines</td>
<td>Comparatives and superlatives</td>
<td>Food and drink</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Giving personal information</td>
<td>Common (un)countable nouns</td>
<td>Nationalities and countries</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Greetings</td>
<td>Imperatives (+/-)</td>
<td>Personal information</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Telling the time</td>
<td>Modal verbs: “können”, “dürfen”, “müssen”</td>
<td>Things in the town, shops and shopping</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Understanding and using numbers</td>
<td>Past simple of “sein” and “haben”</td>
<td>Verbs – basic, separable, regular and irregular</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Understanding and using prices</td>
<td>Possessive articles</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Prepositions of place and time</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Pronouns: simple, personal</td>
<td></td>
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<td></td>
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<tr>
<td></td>
<td>Questions (alternative and information questions)</td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Statements (positive and negative)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Family life
Health and body
Hobbies and pastimes
Holidays
Leisure activities
Shopping
Work and Jobs
Grading:
The final grade is determined in three parts: final exam (50%), oral exam/presentations (25%) and active participation/homework (25%)

- The grade for the final exam is determined as follows: 25% grammar, 25% listening comprehension, 25% reading comprehension and 25% text production (writing).
- The grade for the oral exam/presentation is determined as follows: pronunciation, fluency and lexis and correct usage of grammar (each count for 25% of the oral exam grade).
- 25% of the grade is based on active, thoughtful participation in class activities, demonstrating the student's willingness to learn and preparation for each class ahead of time. The participation grade will be reduced if the student is demonstrably unprepared for, or unwilling to participate in class activities.

Teaching Material:
Motive A1 Arbeitsbuch ISBN 978-3-19-061880-4

Motive A2 Arbeitsbuch ISBN 978-3-19-031881-0

Motive B1 Kursbuch ISBN 978-3-19-001882-6
Motive B1 Arbeitsbuch ISBN 978-3-19-031882-7

Intercultural Competence Training: Studying and Working in Germany / 2 ECTS – 1 US/CAN Credit

Course Description:
In times of globalization, intercultural competence is a basic skill for life and work in order to deal with the increasing cultural diversity in our societies. This seminar will train non-Germans who live, study and work in Germany, especially in the Rhine-Main area, in intercultural competence skills. In addition to factual background information, this course will introduce students to practical techniques, skills and knowledge to help them successfully arrange themselves within an intercultural working and learning environment throughout Germany.

Part 1: Intercultural Competence – An Introduction
- Culture with an upper-case or lower-case “C”
- Dimensions of culture and cultural standards
- Culture shock - myth or fact?
- Cultural competence – how to get along

Part 2: Working in Germany
- German time management – a key to success
- Integration, inclusion or segregation, how to meet local people and to take part in non-university events and activities
- Topics and taboos in Germany – traps and pitfalls in everyday life and behavior
- Germans like to speak English – but who understands their Germish or Denglish?
Part 3: Studying in Germany

- How to communicate with your professors and your co-students: learning the different levels of (in)formality in speaking and writing to different people
- How to study in Germany successfully – become familiar with German students’ study strategies and comparisons and contrasts to students’ study habits in different areas of the world

Company visits (such as):
- Mercedes-Benz (German automobile manufacturer)
- Continental AG (German automotive manufacturing company)
- EUMETSAT (European Organisation for the Exploitation of Meteorological Satellites)
- MERCK (German chemical, pharmaceutical and life sciences company)

Course Goals and Objectives:
Recognition of cross-cultural similarities and differences between Germany and the home country of the students, and understanding the reasons for those similarities and differences based on academic analysis.

Course Structure: 4 units of in-class lectures and discussions, 5 field trips to corporations.

Prerequisites: none

Learning Outcomes:
- Understanding of different European definitions of the term “culture”
- Understanding and critical reflection on the concepts of “cultural dimensions” and “cultural standards”
- Identifying, judging, and solving critical incidents in cross-cultural situations
- Getting acquainted with and understanding the German university system and its autonomous learning requirements

Grading:
The students’ final grade is based on the participation in the seminar as well as a presentation that shows the obtained knowledge can be usefully applied in a real-world context.

The student’s presentation will be evaluated on its clarity and organization, the demonstrated understanding of intercultural competence, and the ability to apply that understanding to a specific element of interculturality. The students are encouraged to select their own topics.

Teaching Material: Hard copies handed out by the teacher in class
Lecture Series: Engineering Courses / 3 ECTS – 1.5 US/CAN Credit

Academic head: Prof. Dr.-Ing. Cameron Tropea

I.) Automotive Engineering: Prof. Dr. rer. nat. Hermann Winner, Prof. Dr. techn. Christian Beidl

Course Description:
The course gives an introduction into automotive engineering by typical problems in this field. In the first session, lectures provide the basics of driving dynamics and Advanced Driver Assistance Systems. The problems are demonstrated by driving experiments and demonstrations. In the second session, lectures give a prospective view of future mobility using regenerative energy in order to fulfill future CO2 targets in 2050. Different powertrain solutions will be introduced and analyzed by explaining the technologies and discussing the advantages and disadvantages.

Contents:
Session 1: Institute of Automotive Engineering (FZD)
- Driving Resistance (Theory and Experiments)
- Braking Dynamics (Theory and Experiments)
- Introduction to Advanced Driver Assistance Systems (ADAS)
- Introduction to research projects at FZD

Session 2: Institute for Internal Combustion Engines and Powertrain Systems (VKM)
- Characterization of different energy storage systems and energy converters
- Analysis of efficiency chains and carbon footprints for Tank-to-Wheel (TTW) and Well-to-Wheel (WTW) approaches
- Introduction in combined powertrain systems

Course Structure:
- Experiments: Introduction to Griesheim Airfield, experiments and driving demonstrations ADAS; Introduction of hybrid powertrains in RDE scenarios and fundamental researches of E-Fuels on the test benches of vkm
- Analysis of experiments and written exam

Prerequisites:
None
Learning Outcomes:
The students know the basics of driving resistances, braking dynamics and advanced driver assistance systems. In addition they have received an insight into the research projects of an automotive engineering institute. Furthermore, the students will know the basic functions of different energy storage concepts and the operating modes of various energy converters. In addition, they will be able to carry out an efficiency and CO2 analysis for powertrain systems as well as for particular powertrain components. Based on the fundamentals and the analysis, the students will understand the advantages and disadvantages of individual and combined systems.

Grading:
A written exam at the end of the last lecture tests the student’s knowledge with respect to the theory-lessons.

II.) Aeronautical Engineering, Prof. Dr.-Ing. Cameron Tropea, Prof. Dr.-Ing. Uwe Klingauf

Course Description

The course deals with the design, function and operation of wind tunnels and the use of basic measurement techniques in fluid mechanics, aerodynamics and flight mechanics. The main course aspects are the preparation of wind tunnel experiments, the use and calibration of pressure measurement sensors and hot-wire anemometry. Measurement uncertainties will be discussed, and suitable measurement programs and data analysis methods will be applied using a commercial data processing program (LabVIEW). These fundamentals will be expanded on by carrying out wind tunnel experiments. In the second session, an overview of flight mechanics and flight testing will be given. Students will conduct practical experiments in the institute's research flight simulators to determine the performance of an airplane.

Learning Outcomes

The students will be taught the basics of wind tunnel testing, data acquisition and the use of measurement technology in the field of fluid mechanics, aerodynamics, flight mechanics and flight testing. The benefits and disadvantages of each of these methods can be understood under consideration of physical interrelationships. In addition, an insight into the research work at the Institute of Fluid Mechanics and Aerodynamics as well as the Institute of Flight Systems and Automatic Control can be gained.

Content:
- Introduction of the Institutes and presentation of research work
- Theory of flight mechanics and flight testing
- Theory of pressure measurement methods in wind tunnels
- Theory of hot-wire anemometry
- Practical exercises and wind tunnel tests
- Introduction to and practical experiments in flight simulators
- Data acquisition in the experiments
- Data interpretation and discussion
Course structure

Week 1:
- Introduction of the Institute of Fluid Mechanics and Aerodynamics
- Laboratory tour and presentation of research work at the institute
- Lecture about "Wind tunnels" and "Application of pressure measuring technology in wind tunnels"
- Practical exercise and wind tunnel test: "Preparation and use of the Prandtl tube to determine the wind tunnel velocity"
- Theoretical exercise: "Evaluation of measurement data"
- Lecture about "Hot wire anemometry"
- Practical exercise: "Calibration of hot wire probes for the wind tunnel test"
- Practical exercise and wind tunnel test: "Hot wire measurement of wind tunnel velocity profile"
- Theoretical exercise: "Evaluation of measurement data"

Week 2:
- Introduction of the Institute of Flight Systems and Automatic Control
- Lecture about "flight mechanics and flight testing"
- Practical experiments in the research flight simulators (data acquisition)
- Lab tours
- Lecture about "automatic control"
- Lab tours
- Data analysis and evaluation
- Preparation of oral presentations
- Written exam and oral presentations

Grading
At the end of the course, the acquired knowledge is assessed in a written examination. Students will also present their results from the second session (flight mechanics and flight testing).

III.) Mechatronic Engineering, Prof. Dr.-Ing. Stephan Rinderknecht

Course Description:
The course gives a mechatronic systems engineering perspective on automotive drive trains, which focuses on system integration. We present design methods and system integration techniques in a lecture and convey additional insights in small exercises and a visit in our lab.

Content:
- Design process and documentation
- V model design and quality aspects
- Geometric and functional integration
- Interrelations to automatic control

Course structure:
- Lectures: “Engineering design methods” & “Mechatronic system integration”
- Lab tour: Mechatronic research at IMS
- Theoretical exercise & laboratory experiment: “Investigation of an automated electric drive train”
Prerequisites:
None

Learning Outcomes:
The students understand mechatronic engineering design methods at different levels, i.e., component and system level of automotive drive trains. They are able to apply design methods to improve the system integration of mechatronic systems regarding geometry and function.

Grading:
The knowledge of the students will be assessed in a written exam.

IV.) Production Engineering, Prof. Dr.-Ing. Dipl.-Wirtsch.-Ing. Peter Groche, Prof. Dr.-Ing. Eberhard Abele, Prof. Dr.-Ing. Dipl.-Wirtsch.-Ing. Joachim Metternich

Course Description:
The course aims at giving a deeper insight into production technology, production management and energy efficiency as it is developed at the institutes PTW and PtU. Thus, the course focuses, on the one hand, on the special applications of lasers in manufacturing. Laser welding and laser cutting processes will be studied as examples. On the other hand, the use of new, innovative digital technologies in forming technology is demonstrated with respect to process monitoring. Furthermore, workshops in the Process Learning Factory CiP and in the ETA-Factory will give a first, hands-on insight into Lean Production and energy efficiency techniques.

Content:
Session 1: Lasers in manufacturing (PtU), Campus Lichtwiese
- Lecture and introduction: Laser systems in manufacturing
- Cutting and welding with the laser system
- Assessment of the manufactured parts

Session 2: Value Stream Mapping (PTW), Campus Lichtwiese, CiP-Factory
- Value Stream Mapping theory in classroom
- Hands-on application of learned theory in the Learning Factory

Session 3: Digitalization in forming technology (PtU), Campus Lichtwiese
- Applications of Industrial Internet and Industrie 4.0 at shop-floor level
- Value-adding to products through digitalization of forming processes
- Development of autonomous manufacturing processes

Session 4: Energy Value Stream Mapping (PTW), Campus Lichtwiese, ETA-Factory
- Energy Value Stream Mapping theory in classroom
- Hands-on application of learned theory in the ETA-Factory

Course Structure:
- Learning Factory/Laboratory/theoretical exercises
- Lab/experimental field tour (PTW, PtU)
- Exam
Prerequisites:
None

Learning Outcomes:
In this course, the theory of laser technology will be taught including the relevant factors of influence. In addition, the acquired theoretical knowledge will be deepened in a short research project executed at the laser processing centre. As a second topic, a theoretical knowledge of the integration of sensor and actuator technology in forming tools will be taught. A practical demonstration of forming tools equipped with sensors for real time process monitoring will deepen the theoretical knowledge. Furthermore, the students will get in touch with the topic “Value Stream Mapping”, a core concept of Lean Production, and with the “Energy Value Stream Mapping”, a suitable tool for detecting energy losses in industrial value streams.

Grading:
The grade will be based on an examination comprising comprehension questions (short questions and multiple-choice questions) and/or a presentation of project results (5-6 students per group).
# 4. Scheduled Programme Plan 2019

## International Summer University “German Engineering and Language” Programme 2019

**June, 30 to July, 27 2019**

**Arrival July 1**

<table>
<thead>
<tr>
<th>Week I</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
<th>Saturday</th>
<th>Sunday</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 01</td>
<td>Welcome</td>
<td>German Language Course A1, A2 or B1</td>
<td>Automotive or Aeronautical Engineering</td>
<td>German Language Course A1, A2 or B1</td>
<td>Intercultural Training</td>
<td></td>
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</tr>
<tr>
<td>Break</td>
<td>Lunch Break</td>
<td>Lunch break</td>
<td>Lunch break</td>
<td>Lunch break</td>
<td>Lunch break</td>
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<tr>
<td>13:30</td>
<td>Introduction to Studying and Living in Hesse Darmstadt City Tour</td>
<td>Automotive or Aeronautical Engineering</td>
<td>Automotive or Aeronautical Engineering</td>
<td>Automotive or Aeronautical Engineering</td>
<td>Intercultural Training</td>
<td>Excursion Munich (incl. BMW museum)</td>
<td>Excursion Munich (incl. Nymphenburg castle)</td>
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<td></td>
<td>Meisterspiele (Fleowerets)</td>
<td>Barbecues: Beer garden</td>
<td>Overnight bus to Munich</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Week II</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
<th>Saturday</th>
<th>Sunday</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 08</td>
<td>German Language Course A1, A2 or B1</td>
<td>German Language Course A1, A2 or B1</td>
<td>German Language Course A1, A2 or B1</td>
<td>German Language Course A1, A2 or B1</td>
<td>Company Visit: EUMETSAT</td>
<td>Excursion Frankfurt/Main</td>
<td>High Rope Course</td>
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<tr>
<td>Break</td>
<td>Lunch break</td>
<td>Lunch break</td>
<td>Lunch break</td>
<td>Lunch break</td>
<td>Lunch break</td>
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<td>13:30</td>
<td>Automotive or Aeronautical Engineering</td>
<td>Automotive or Aeronautical Engineering</td>
<td>Automotive or Aeronautical Engineering</td>
<td>Automotive or Aeronautical Engineering</td>
<td>Automotive or Aeronautical Engineering</td>
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<td></td>
<td>Guided Tour: Mudflidsenhöhe &amp; Rosenhöhe</td>
<td>Game Night</td>
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</table>

<table>
<thead>
<tr>
<th>Week III</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
<th>Saturday</th>
<th>Sunday</th>
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</thead>
<tbody>
<tr>
<td>July 15</td>
<td>Company Visit Continental</td>
<td>German Language Course A1, A2 or B1</td>
<td>German Language Course A1, A2 or B1</td>
<td>German Language Course A1, A2 or B1</td>
<td>German Language Course A1, A2 or B1</td>
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<tr>
<td>Break</td>
<td>Lunch Break</td>
<td>Lunch Break</td>
<td>Lunch Break</td>
<td>Lunch Break</td>
<td>Lunch Break</td>
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<tr>
<td>13:30</td>
<td>Mechatronics or Production Engineering</td>
<td>Mechatronics or Production Engineering</td>
<td>Mechatronics or Production Engineering</td>
<td>Mechatronics or Production Engineering</td>
<td>Mechatronics or Production Engineering</td>
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<tr>
<td></td>
<td>Hessen State Museum</td>
<td>International Cooking</td>
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</table>

<table>
<thead>
<tr>
<th>Week IV</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
<th>Saturday</th>
<th>Sunday</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 22</td>
<td>German Language Course A1, A2 or B1</td>
<td>German Language Course A1, A2 or B1</td>
<td>German Language Course A1, A2 or B1</td>
<td>Company Visit: Ducasse, Zürilec</td>
<td>Handover of certificate &amp; Farewell Party</td>
<td>Departure</td>
<td></td>
</tr>
<tr>
<td>Break</td>
<td>Lunch break</td>
<td>Lunch break</td>
<td>Lunch break</td>
<td>Lunch break</td>
<td>Lunch break</td>
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<tr>
<td>13:30</td>
<td>Mechatronics or Production Engineering</td>
<td>Mechatronics or Production Engineering</td>
<td>Mechatronics or Production Engineering</td>
<td>Mechatronics or Production Engineering</td>
<td>Mechatronics or Production Engineering</td>
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<tr>
<td></td>
<td>&quot;Hiking&quot; Tour: Ludwigsuhle Darmstadt</td>
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</tbody>
</table>

The four-week International Summer University Programme 2019 consists of four components:

1. Intensive German Language Course / mandatory
2. Intensive Competence Training: Studying and Working in Germany (ITC) / mandatory
3. Encouraging Classes and Workshops / mandatory
4. Social Programmes / voluntary
5. Grading and Credit Points

The grades are calculated as follows:

<table>
<thead>
<tr>
<th>Credit points International Summer University 2010 at TU Darmstadt</th>
<th>Amount of sessions</th>
<th>Workload in hours</th>
<th>25-30 = 1 ECTS</th>
<th>1 ECTS = 0.5 US Credit</th>
<th>% Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>German Intensive Language Course</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Class hours</td>
<td>12</td>
<td>42</td>
<td>1.66</td>
<td>0.64</td>
<td></td>
</tr>
<tr>
<td>&gt; Homework, preparation and exam</td>
<td>7</td>
<td>50</td>
<td>2.22</td>
<td>1.11</td>
<td></td>
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<tr>
<td><strong>Total German Intensive Language Course</strong></td>
<td>19</td>
<td>92</td>
<td>3.88</td>
<td>1.89</td>
<td>50</td>
</tr>
<tr>
<td><strong>Intercultural Competence Training; Study and Work in Germany</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Intercultural Training</td>
<td>2</td>
<td>8</td>
<td>0.32</td>
<td>0.16</td>
<td></td>
</tr>
<tr>
<td>&gt; Project work and presentation</td>
<td>2</td>
<td>4</td>
<td>0.16</td>
<td>0.08</td>
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<tr>
<td>&gt; Homework and preparation</td>
<td>4</td>
<td>16</td>
<td>0.64</td>
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<tr>
<td><strong>Intercultural Experience</strong></td>
<td></td>
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<tr>
<td>&gt; Company visits</td>
<td>4</td>
<td>12</td>
<td>0.48</td>
<td>0.24</td>
<td></td>
</tr>
<tr>
<td>&gt; Excursions</td>
<td>3</td>
<td>12</td>
<td>0.48</td>
<td>0.24</td>
<td></td>
</tr>
<tr>
<td>&gt; Social Events</td>
<td>4</td>
<td>10</td>
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<td><strong>Lecture Series: Engineering courses (only two can be selected)</strong></td>
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<tr>
<td>&gt; Aeronautical Engineering incl. homework and preparation</td>
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<td>45</td>
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<tr>
<td>&gt; Mechanical Engineering incl. homework and preparation</td>
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