| Robotics | and Intelligent Systems (RIS) BSe | e | | | | | | | | | | | |
|----------------------------|--|----------------------|--------------------------------|-------------------------------------|---------------------|--------------|-------------------------|--|--------------------|---------------------|--------------------|---------------------|------|
| Aatriculation F | all 2021 | | | | | | | | | | | | |
| | Program-Specific Modules | Type | Assessment | Period | Status ¹ | Sem. CP | | Jacobs Track Modules (General Education) | Type | Assessment | Period | Status ¹ | Sem. |
| ar 1 - CHO | | | | | | 45 | | | | | | | |
| ke the mandator | y CHOICE modules listed below | | | | | | _ | | | | | | |
| | | | | | | 15 | | Unit: Methods / Skills | | | | | |
| H-220 | Module: Introduction to Robotics and Intelligent Systems (defau | | | | m | 2 7.5 | JTMS-MAT-09 | Module: Calculus and Elements of Linear Algebra I | | | | m | 1 |
| CH-220-A CH-220-B | Introduction to Robotics and Intelligent Systems Intro to RIS - lab | Lecture Lab | Written examination | Examination period | | 5 2.5 | JTMS-09 Module Code | Calculus and Linear Algebra I Module: Calculus and Elements of Linear Algebra II | Lecture | Written examination | Examination period | m | 2 |
| CH-231 | Module: Algorithms and Data Structures | Lab | | | m | | JTMS-10 | Calculus and Linear Algebra II | Lecture | Written examination | Examination period | | |
| CH-231-A | Algorithms and Data Structures | Lecture | Written examination | Examination period | | 2 /10 | 1 10 | Calculus and Estedi Angeona 11 | Lecture | Witten Cammaton | Lamination period | | |
| | | | | | | 30 | | Unit: Language | | | | | |
| CH-230 | Module: Programming in C and C++ (default minor) | | | | m | 1 7.5 | | German is default language. Native German speakers take mode | ules in another of | offered language. | | | |
| CH-230-A | Programming in C and C++ | Lecture | Written examination | Examination period | | 2.5 | Module Code | Module: Language 1 | | | | m | 1 |
| CH-230-B | Programming in C and C++ Tutorial | Tutorial | Practical assignments | During the semester | | 5 | JTLA-xxx | Language 1 | Seminar | r Various | Various | me | |
| CH-140 | Module: Classical Physics | | YYY ! | | m | 1 7,5 | | | | | | | |
| CH-140-A | Classical Physics | Lecture | Written exam | Examination period | | 5 2.5 | W I I C I | W.I.I. Y. | | | | | _ |
| CH-140-B CH-211 | Classical Mechanics Lab Module: General Electrical Engineering I | Lab | Lab report | During the semester | m | 1 7.5 | Module Code JTLA-xxx | Module: Language 2 Language 2 | Seminar | r Various | Various | m me | 2 |
| CH-211-A | General Electrical Engineering I | Lecture | Written exam | Examination period | ш | 1 /.3 | J ILA-AAA | Language 2 | Schillar | * arrous | v arrous | me | |
| CH-211-B | General Electrical Engineering Lab I | Lab | Lab report | During the semester | | 2.5 | | | | | | | |
| CH-232 | Module: Introduction to Computer Science | | | | m | 2 7.5 | | | | | | | |
| CH-232-A | Introduction to Computer Science | Lecture | Written examination | Examination period | | | | | | | | | |
| Year 2 - COR | • | Eccture | | Examination period | | | | | | | | | |
| | odules listed below or replace mandatory elective ("me") modules with st | uitable CORF modules | e from other study program | | | 45 | | | | | | | |
| rake an CORE me | Unit: Robotics (default minor) | mable CORE modules | from other study program | | | 15 | | Unit: Methods / Skills | | | | _ | |
| CO-540 | Module: Robotics | | | | m | 3 5 | JTMS-MAT-12 | Module: Probability and Random Processes | | | | m | 3 |
| CO-540-A | Robotics | Lecture | Written examination | Examination period | | 3 3 | JTMS-12 | Probability and Random Processes | Lecture | Written examination | Examination period | | |
| CO-541 | Module: Machine Learning | Eccture | Witten examination | Examination period | m | 4 5 | 311VIS-12 | 1 tobability and Random 1 toccsses | Lecture | Witten examination | Examination period | | |
| CO-541-A | Machine Learning | Lecture | Written examination | Examination period | | - | Take one of the two | listed mandatory elective methods modules: | | | | | |
| CO-542 | Module: RIS Lab | | | | me | 3-4 5 | JTMS-MAT-13 | Module: Numerical Methods ⁴ | | | | me | 4 |
| CO-542-A | RIS Lab 1 | Lab | Lab Report | During the semester | | 3 2.5 | JTMS-13 | Numerical Methods | Lecture | Written examination | Examination period | | |
| CO-542-B | RIS Lab 2 | Lab | Lab Report | | | 4 2.5 | CO-501 | Module: Discrete Mathematics | | | | me | 4 |
| | Unit: Automation and Control | | | | | 15 | CO-501-A | Discrete Mathematics | Lecture | Written examination | Examination period | | |
| CO-543 | Automation | | | | me | 4 5 | | | | | | | |
| CO-543-A | Automation | Lecture | Written examination | Examination period | | | | Unit: Language | | m 11 | | | |
| CO-544 CO-544-A | Module: Embedded Systems Embedded Systems | Lecture/Lab | Project | During the semester | me | 3 5 | Module Code | German is default language. Native German speakers take mode Module: Language 3 | iles in another of | Hered language. | | m | 3 |
| CO-545 | Module: Control Systems | Lecture/Lab | Project | During the semester | me | 3 5 | JTLA-xxx | Language 3 | Seminar | r Various | Various | me | 3 |
| CO-545-A | Control Systems | Lecture | Written examination | Examination period | IIIC | 3 3 | JILLI AAA | Language 3 | Jennin | · unous | · unous | **** | |
| | Unit: Intelligent Systems | | | | | 15 | Module Code | Module: Language 4 | | | | m | 4 |
| CO-546 | Module: Computer Vision | | | | me | 3 5 | JTLA-xxx | Language 4 | Seminar | r Various | Various | me | |
| CO-546-A | Computer Vision | Lecture/Lab | Written examination | Examination period | | | | | | | | | |
| CO-547 | Module: Artificial Intelligence | | | | m | 4 5 | | | | | | | |
| CO-547-A | Artificial Intelligence | Lecture | Written examination | Examination period | | | | | | | | | |
| CO-548 CO-548-A | Module: RIS project RIS project | Project/Lab | Report / Presentation | During the semester | m | 4 5 | | | | | | | |
| Year 3 - CAR | | rroject/Lab | Report / Presentation | During the semester | | | | | | | | | |
| Year 3 - CAR | EER | | | | | 45 | | | | | | | |
| | Module: Summer Internship | | | | m | | | Unit: Big Questions | | | | | |
| CA-INT-900 | - | Y | D (D) DI | To a seth o | | 4/5 15 | TTDO DO | | | | | | |
| CA-INT-900-0 CA-RIS-800 | Summer Internship Module: Thesis / Seminar IMS | Internship | Report/Business Plan and | During the 5 th Semester | | 6 15 | JTBQ-BQ | Module: Big Questions CP of Big Questions modules with each 2.5 or 5 CP | Lecture | Various | Various | m me | 5/6 |
| CA-RIS-800-T | Thesis IMS | Thesis | | 15 th of May | m | 12 | Take a total of 10 C | Unit: Community Impact Project | Lecidre | v drious | various | me | |
| CA-RIS-800-1 | Seminar IMS | Seminar | Thesis and Presentation | During the semester | | 3 | JTCI-CI-950 | Module: Community Impact Project | | | | m | 5 |
| C.1 Alb-000-3 | Unit: Specialization RIS | Schindl | | During the semester | m | , | JTCI-950 | Community Impact Project | Project | Project | Examination period | | |
| Take a total of 15 | CP of specialization modules | | | | | | 1 101,750 | , impute rroject | · | 9 | | | |
| CA-S-RIS-801 | Marine Robotics | Lecture/Lab | Oral examination | Examination period | me | 6 5 | | | | | | | |
| | Human-Computer Interaction | Lecture | Written examination | Examination period | me | 5 5 | | | | | | | |
| CS-S-RIS-802 | | | | | | | | | | | | | |
| CS-S-RIS-802 | Optimisation | Lecture | Written examination | Examination period | me | 6 5 | | | | | | | |
| | | Lecture | Written examination Various | Examination period Various | | 6 5 5/6 5 | | | | | | | |

Status (III – Indicatory), The – Indicatory elective?
For a full listing of all CHOICE / CORE / CAREER / Jacobs Track modules please consult the CampusNet online catalogue and /or the study program handbooks.
For details please see the program handbook