M o d u l e s   "M S c.   C i v i l   E n g i n e e r i n g" - F P S O   2 0 1 9 1 : December 17, 2020

Semester	Required Modules				Elective Modules							

Semester 1 WS

Required Modules

- Interactions of Land-use and Transport — 2 SWS/ 3 Cr — BGU52018
  - C: Interactions of Land-use and Transport — Wulfhorst
- Modeling and Control of Traffic Flow — Dumler/Dandl — 6 SWS/ 9 Cr — BGU56045
  - C1: Traffic Flow Models (VI) — Bogenberger, Tilg
  - C2: Traffic Control Basics — Bogenberger, Amini

Elective Modules

- Urban Infrastructure Design — Dumler — 2 SWS/ 3 Cr — BV560018
  - C: Urban Infrastructure Design — Dumler from WS2122: Keler
- Urban Ropeways — Glöckl — 2 SWS/ 3 Cr — BGU56056
  - C: Urban Ropeways — Bogenberger
- Project Traffic Engineering and Transport Planning — Karl — 2 SWS/ 3 Cr — BV560022
  - C: Project Traffic Engineering and Transport Planning — Karl
- Public Transport as Urban Generator — 2 SWS/ 3 Cr — AR30213
  - C: Public Transport as Urban Generator — Thierstein, Wulfhorst

Semester 2 SS

Required Modules

- Modeling and Control of Traffic Flow — Dumler/Dandl — 6 SWS/ 9 Cr — BGU56045
  - C3: Traffic Control-Extension (VI) — Bogenberger, Grigoropoulos

Elective Modules

- Applied Traffic Engineering and Transport Planning — Dumler/Glöckl — 3 SWS/ 3 Cr — BGU56050T2
  - C1: Computer Aided Design — Tsakarestos
  - C2: Traffic Engineering and Transport Planning in Practice — Dumler/Glöckl
  - Transport Planning and Traffic Engineering Concepts for Electric Mobility — N.N. — 2 SWS/ 3 Cr — BGU56041
  - C: Transport Planning and Traffic Engineering Concepts for Electric Mobility is expected to be offered from SS22 — Bogenberger, Wulfhorst
- Traffic Data Collection and Analysis — Spangler — 3 SWS/ 3 Cr — BGU56048
  - C: Traffic Data Collection and Analysis — Spangler
- Autonomous Vehicles and Transportation Systems — Spangler — 3 SWS/ 3 Cr — BGU56055
  - C: Autonomous Vehicles and Transportation Systems — Bogenberger
- Traffic Flow Simulation — Dandl — 6 SWS/ 6 Cr — BGU56059T2
  - C1: Traffic Flow Simulation-Basics
  - C2 "Traffic Flow Simulation-Extension" is offered in the 3rd semester — Dandl, Amini
- Public Transport Operations and Supply — 3 SWS/ 3 Cr — BV560009
  - C: Public Transport Operations and Supply — Tsakarestos
- Transport Economy and System Assessment — Fehn — 3 SWS/ 3 Cr — BV560040
  - C1: Transport Economy and System Assessment (Lecture) — Fehn/Tilg
  - C2: Transport Economy and System Assessment (Exercise) — Fehn/Tilg
- Project Traffic Engineering and Transport Planning — Karl — 2 SWS/ 3 Cr — BV560022
  - C: Project Traffic Engineering and Transport Planning — Karl
- Urban und Regional Planning — 2 SWS/ 3 Cr — BV210013
  - C: Urban und Regional Planning — Wulfhorst
- Road Safety — 6 SWS/ 6 Cr — BGU68006
  - C1: Road Safety Fundamentals — Moeckel
  - C2: Advanced Road Safety Concepts — Antoniou

Semester 3 WS

Elective Modules

- Transport and the Environment — Tsakarestos — 2 SWS/ 3 Cr — BV560031
  - C: Transport and the Environment — Tsakarestos
- Selected Topics in Traffic Engineering and Transport Planning — 2 SWS/ 3 Cr — BGU56032
  - C1: Air Transportation — Plötner
  - C2: Commercial Transport and Logistics — Kunze (LA)
- ITS-System Architectures und Applications — 2 SWS/ 3 Cr — BGU56034
  - C: ITS-System Architectures und Applications — Antoniou
- Traffic Flow Simulation — Dandl — 6 SWS/ 6 Cr — BGU56059T2
  - C2: Traffic Flow Simulation-Extension — Dandl, Amini
- Project Traffic Engineering and Transport Planning — Karl — 2 SWS/ 3 Cr — BV560022
  - C: Project Traffic Engineering and Transport Planning — Karl

Semester 4 SS

Required Modules

- Master's Thesis — 6 months/ 30 Cr — BV00MTBI
  - Master's Thesis — Topic must be elected from one of the four specialization subjects