



- The Winter School is a joint activity of Ruhr Master School (www.ruhrmasterschool.de), ruhrvalley (www.ruhrvalley.de) and DAAD EuroPIM (www.go-study-europe.de).
- It is organized by the Master programmes:
 - European Master in Project Management (EuroMPM, FH Dortmund)
 - Master Embedded Systems for Mechatronics (ESM, FH Dortmund)
 - Master Digital Transformation (MDT, FH Dortmund)
- The workshop takes place in **Dortmund, May 20 – 24, 2019**
- We can offer a limited amount of scholarships for students to cover transportation and accommodation costs. For more information on this, please contact us via europim@fh-dortmund.de
- The participation is free of any fees
- Workshop registration is required until May 1st 2019 with: europim@fh-dortmund.de





Spring School

- The Spring School is organized in different thematic streams:
 - Stream A: Automated Driving (Andreas Becker)
 - Stream B: Multi-Project and Project Portfolio Management (Andre Dechange)
 - Stream C: Usability Engineering, (Christian Reimann)
- Certificates are provided to successful participants for every stream.
- The workshop facilities and final week schedules are announced on May 15th.

Stream A: Automated Driving

- Organizer: Andreas Becker (FH Dortmund): andreas.becker@fh-dortmund.de
- Target Group: Embedded System, Digital Transformation, Computer Science, Electronics & Electrical Engineering, Information Technology
- Short Description: Implementation of a driver assistance function (automatic emergency braking) for the Audi Autonomous Driving Cup vehicle
- Available Seats: 10
- Prerequisites: Knowledge in signal processing, Matlab/Simulink, C/C++
- Recognition of Credits:
 - **Elective** for Master Embedded Systems, Signals and Systems for Automated Driving (MOD-E04), practical part of the module (50%)
 - Optional for Master Digital Transformation: Mini Project in Scientific & Transversal Skills 1 & 2 or elective (via Ruhr Master School, see above)
 - Master Informatik: *Masterseminar* => 50% of the assignments (equals 3 ECTS), in combination with a homework about the workshop topic the module with 5 ECTS can be awarded.
 - Master Informationstechnik: *Projektarbeit 1 oder 2* => 50% of the assignments (equals 3 ECTS), in combination with a homework the module with 6 ECTS can be awarded (confirmation with Ingo Kunold).

Stream A: Automated Driving

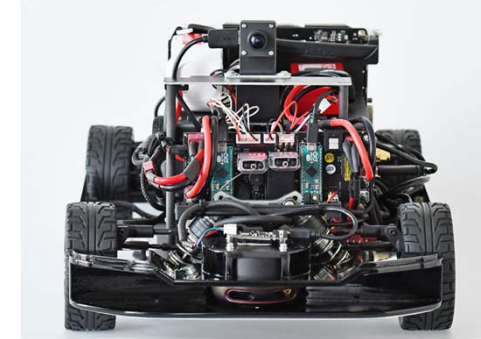
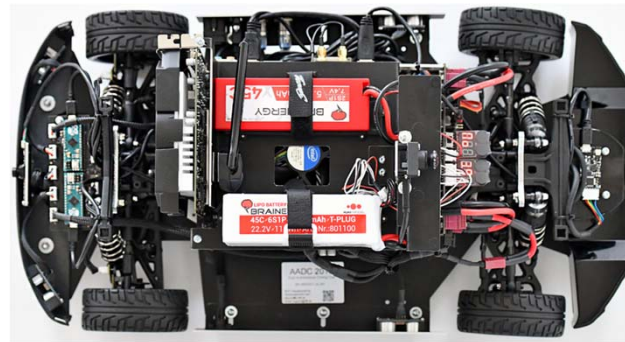
Time	Monday	Tuesday	Wednesday	Thursday	Friday
09:00-11:00	Emil-Figge-Str. 43 (REFA): ALL: Opening and Introduction to the Spring School	Mini Lecture: TBD	Mini Lecture: vehicle trajectory estimation and driving dynamics	Mini Lecture: TBD	Group Work: in teams => preparing presentations
11:00-12:30	Introduction, Joint formulation of the task	Group Work: Project Planning and Schedule, Concept for research	Group Work: => prepare questions and slides mid term presentation	Group Work: in teams	Team Presentation: Trial Run & Feedback
12:30-13:30	Lunch break	Lunch break	Lunch break	Lunch Break	Lunch Break
13:30-15:30	Mini Lecture: Introduction to ADTF	Team Presentation: Concepts & Plan	Location (xxx): Mid term presentation, Q&A	Group Work: in teams	Emil-Figge-Str. 43 (REFA): presentations and rehearsal
16:00-18:00	Team Setup: => Roles & Infrastructure	Group Work: in teams	Group Work: in teams ALL: Social Event	Group Work: in teams	ALL: Kick out and feedback (evaluation)

¹ **Meeting time:** Monday at 8:30 a.m. **Meeting point :** lobby of A&O hostel

² Check slide 'Social events'

Contact person: xxx

Stream A: Automated Driving



- Goal: Implementation of Automatic Emergency Braking
- Technology used:
 - Laserscanner RPLIDAR A2
 - Video camera
 - 9-axis motion tracking sensor
 - ADTF
- Teams: 2 Teams (max. 5 per team)
 - Team A: Vehicle dynamics and path prediction
 - Team B: Obstacle detection

GEFÖRDERT VOM



Bundesministerium
für Bildung
und Forschung

DAAD

Deutscher Akademischer Austausch Dienst
German Academic Exchange Service

Spring School 2019 – FH Dortmund

Stream B: Multi-Project and Project Portfolio Management

- Organizer: André Dechange (FH Dortmund): andre.dechange@fh-dortmund.de
- Target Group: Project Management, Digital Transformation, Business & Business Computing, (Industrial) Engineers
- Short Description: **Introduction in Program Management in Project Management Office, concept and approach of Project Portfolio Management, application of a Project Portfolio Management,**
- Partners: **Innogy SE Essen**
- Available Seats: 30
- Prerequisites: Project Management Fundamentals and Project Organisation
- Recognition of Credits:
 - **Mandatory** for EuroMPM, Module I: Multi-Project Management and Organisation, Multi-Project and Project Portfolio Management part of the module (50%)
 - Optional for Master Digital Transformation: Mini Project in Scientific & Transversal Skills 1 & 2, R&D Project Management or elective (via Ruhr Master School, see above)
 - Optional for Master ESM: Mini Project in IESD (MOD1-05), assignment in R&D Project Management (MOD2-03) or elective (via Ruhr Master School, see above)
 - Master Informatik: *Masterseminar* => 50% of the assignments (equals 3 ECTS), in combination with a homework about the workshop topic the module with 5 ECTS can be awarded.

Stream B: Multi-Project and Project Portfolio Management

Time	Monday (EFS44 1.13)	Tuesday (EFS44 1.13)	Wednesday (EFS44 1.23)	Thursday (EFS44 1.23)	Friday
09:00-11:00	Emil-Figge-Str. 43 (REFA): ALL: Opening and Introduction to the Spring School	Mini Lecture: Project Portfolio Management I	Mini Lecture: Project Portfolio Management II	Only for EuroMPM Students: 3 rd part Project Organisation	Group Work: in teams => preparing presentations
11:00-12:30	Introduction, Joint formulation of the task	Group Work	Group Work:		Team Presentation: Trial Run & Feedback
12:30-13:30	Lunch break	Lunch break	Lunch break		Lunch Break
13:30-15:30	Mini Lecture: Multiproject Management	Team Presentation: Concepts & Plan	Input and Group Work		Emil-Figge-Str. 43 (REFA): presentations and rehearsal with xxx
16:00-18:00	Team Setup and Group Work	Group Work: in teams	Group Work: in teams ALL: Social Event		Group Work: in teams

¹ **Meeting time:** Monday at 8:30 a.m. **Meeting point :** lobby of A&O hostel

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Contact person: xxx

Stream C: Usability Engineering

- Organizer: Christian Reimann (FH Dortmund): christian.reimann@fh-dortmund.de
- Target Group: Digital Transformation, Computer Science, Business Computing, Information Technology, Project Management, Business Administration
- Short Description: Participants will work in groups on a software project (App development) in an early stage and apply one or more Usability Engineering techniques (e.g. Personas, Paper Prototypes, Guerilla Testing).
- Partners: **CGI (IT Consultancy, to be confirmed)**
- Available Seats: 30
- Prerequisites: either general marketing or project management know how, or Java programming (and maybe App development frameworks)
- Recognition of Credits:
 - **Mandatory** for Master Digital Transformation, Usability Engineering (MOD2-01), practical part of the module (50%)
 - Optional for EuroMPM: Mini Project in Module D: Transversal Skills, assignment in Module K/L: Agile Management in Virtual Project Environments or elective (via Ruhr Master School, see above)
 - Optional for Master ESM: Mini Project in IESD (MOD1-05), assignment in R&D Project Management (MOD2-03) or elective (via Ruhr Master School, see above)
 - Master Informatik: *Masterseminar* => 50% of the assignments (equals 3 ECTS), in combination with a homework about the workshop topic the module with 5 ECTS can be awarded

Stream C: Usability Engineering

Time	Monday	Tuesday	Wednesday	Thursday	Friday
09:00-11:00	Emil-Figge-Str. 43 (REFA): ALL: Opening and Introduction to the Spring School	Mini Lecture: xxx	Mini Lecture: xxx	Mini Lecture: xxx	Group Work: in teams => preparing presentations
11:00-12:30	xxx: Introduction, Joint formulation of the task	Group Work: Project Planning and Schedule, Concept for research	Group Work: => prepare questions and slides mid term presentation	Group Work: in teams	Team Presentation: Trial Run & Feedback
12:30-13:30	Lunch break	Lunch break	Lunch break	Lunch Break	Lunch Break
13:30-15:30	Mini Lecture: xxx	Team Presentation: Concepts & Plan	Location (xxx): Mid term presentation with xxx, Q&A	Group Work: in teams	Emil-Figge-Str. 43 (REFA): presentations and rehearsal with xxx
16:00-18:00	Team Setup: => xxx, Roles & Infrastructure	Group Work: in teams	Group Work: in teams ALL: Social Event	Group Work: in teams	ALL: Kick out and feedback (evaluation)

¹ **Meeting time:** Monday at 8:30 a.m. **Meeting point :** lobby of A&O hostel

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