

Winter School

- 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)
 - Master Elektromobilität (HS Bochum)
 - Master Angewandte Nachhaltigkeit (HS Bochum)
- The workshop takes place in **Dortmund, Nov 19 – 23, 2018**
- Accommodation and travel for international students are covered by Erasmus and DAAD funding (limited seats)
- The participation is free of any fees
- Workshop registration is until October 31st 2018 with:
europim@fh-dortmund.de



Winter School

- The Winter School is organized in different thematic streams:
 - Stream A: Aurubis Workshop (Sabine Lengyl, Sabine Sachweh)
 - Stream B: Agile Project Management (Olha Mikhieieva, Christian Reimann, Dino Schönberg)
 - Stream C: Model Based Systems Engineering (MBSE), (Lukas Krawczyk)
 - Stream D: ruhrvalley- Sustainable Electrical Mobility in Metropolitan Regions (Stefanie Bengfort, Gerd Uhe, Martin Hellwig)
- Certificates are provided to successful participants for every stream.
- The workshop facilities and week schedules are announced on Oct 15th.

Stream A: Aurubis Workshop

- Organizer: Sabine Lengyl (HSHL), Sabine Sachweh (FH Dortmund)
- Target Group: Computer Science, Business Computing, Project Management, Industrial Engineering
- Short Description: Design Thinking Method will be used to analyse the digital transformation strategy of Aurubis, one of the largest German commodity companies.
- Partners: Aurubis (www.aurubis.com)
- Available Seats: 25
- Prerequisites: none
- Recognition of Credits:
 - **Mandatory** for Master Digital Transformation, Innovation Driven Software Engineering (MOD1-01), practical part of the module (50%)
 - Optional for Master ESM: Mini Project in IESD (MOD1-05)
 - Optional for EuroMPM: Cross-Border Project A in Transversal Skills (Module D)
 - 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: Aurubis Workshop

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

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Stream B: Agile Project Management

- Organizer: Olha Mikhieieva (CGI/FH Dortmund)
- Target Group: Computer Science, Business Computing, Project Management, Industrial Engineering
- Short Description: The workshop will introduce agile methods and tools for project management based on the experiences of the IT consulting company CGI
- Partners: CGI (<https://www.cgi.com/en>)
- Available Seats: 25
- Prerequisites: basic project management know how
- Recognition of Credits:
 - Master ESM: assignment in R&D Project Management (MOD2-03)
 - EuroMPM: Cross-Border Project A in Transversal Skills (Module D)
 - 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: Agile Project Management

Time	Monday	Tuesday	Wednesday	Thursday	Friday
09:00-11:00	Emil-Figge-Str. 43 (REFA): ALL: Opening and Introduction to the Winter School	Mini Lecture: Scrum	Mini Lecture: IT tools for Agile Project Management	Mini Lecture: Kanban & Scrumban	Group Work: in teams => preparing presentations
11:00-12:30	CGI: Introduction, Joint formulation of the task	Group Work: Project Planning and Schedule, Concept for research	Group Work: in teams => prepare questions and slides for CGI	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 Agile Project Management	Team Presentation: Concepts & Plan	Location (xxx): Mid term presentation with CGI, Q&A	Group Work: in teams	Emil-Figge-Str. 43 (REFA): presentations and rehearsal with CGI
16:00-18:00	Team Setup: => Belbin Test, Roles & Infrastructure	Group Work: in teams	Group Work: in teams ALL: Social Event	Group Work: in teams	ALL: Kick out and feedback (evaluation)

Stream C: Model Based Systems Engineering (MBSE)

- Organizer: Lukas Krawczyk (FH Dortmund)
- Target Group: Engineers (Information Technology, Embedded Systems, eMobility), Computer Science, Industrial Engineering
- Short Description:
 - The workshop will go through an example case (Automotive Software) with the Model Based Systems Engineering (MBSE) approach. Students will face typical MBSE challenges, such as performing various analyses during early design phases, or synthesizing rudimentary code for simulations.
- Partners: Kostal (t.b.c.)
- Available Seats: 25
- Prerequisites:
 - Programming skills in Java
 - Experience in Eclipse and Eclipse Plugin development are desirable, but not essentially required
- Recognition of Credits:
 - Master ESM: optional, if seats are available, assignment in R&D Project Management (MOD2-03) or Mini Project in IESD (MOD1-05) or Research Seminar
 - 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 C: Model Based Systems Engineering (MBSE)

Time	Monday	Tuesday	Wednesday	Thursday	Friday
09:00-11:00	Emil-Figge-Str. 43 (REFA): ALL: Opening and Introduction to the Winter School	Mini Lecture: xxx	Mini Lecture: xxx	Mini Lecture: xxx	Group Work: in teams => preparing presentations
11:00-12:30	Company xxx: Introduction, Joint formulation of the task	Group Work: Project Planning and Schedule, Concept for research	Group Work: in teams => prepare questions and slides for xxx	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 Company xxx , Q&A	Group Work: in teams	Emil-Figge-Str. 43 (REFA): presentations and rehearsal with Company xxx
16:00-18:00	Team Setup: => Belbin Test, Roles & Infrastructure	Group Work: in teams	Group Work: in teams ALL: Social Event	Group Work: in teams	ALL: Kick out and feedback (evaluation)

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Stream D: ruhrvalley- Sustainable Electrical Mobility in Metropolitan Regions

- Organizer: Stefanie Bengfort, Gerd Uhe, Martin Hellwig
- Target Group: Engineers (Information Technology, Embedded Systems, eMobility), Project Management, Sustainability
- Short Description:
 - The aim is to develop digitalized and/or electrified mobility concepts for the metropolitan region of the ruhr valley. The students will be grouped in interdisciplinary teams of 3-4. They will develop the technical concept, the business case, a feasibility study and a market introduction concept. Results will be presented to a jury of industry experts and academics.
- Partners: ruhrvalley companies: Auktora (t.b.c),
- Available Seats: 25
- Prerequisites: none
- Recognition of Credits:
 - Master ESM: Mini Project in IESD (MOD1-05) or assignment in R&D Project Management (MOD2-03)
 - EuroMPM: Cross-Border Project A in Transversal Skills (Module D)
 - 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 D: ruhrvalley- Sustainable Electrical Mobility in Metropolitan Regions

Time	Monday	Tuesday	Wednesday	Thursday	Friday
09:00-11:00	Emil-Figge-Str. 43 (REFA): ALL: Opening and Introduction to the Winter School	Mini Lecture: Innovation Management	Mini Lecture: eCar components and systems	Mini Lecture: xxx	Group Work: in teams => preparing presentations
11:00-12:30	ruhrvalley: Introduction, Joint formulation of the task	Group Work: Project Planning and Schedule, Concept for research	Group Work: in teams => prepare questions and slides	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: eMobility	Team Presentation: Concepts & Plan	Location (xxx): Mid term presentation with ruhrvalley, Q&A	Group Work: in teams	Emil-Figge-Str. 43 (REFA): presentations and rehearsal with ruhrvalley
16:00-18:00	Team Setup: => Belbin Test, Roles & Infrastructure	Group Work: in teams	Group Work: in teams ALL: Social Event	Group Work: in teams	ALL: Kick out and feedback (evaluation)

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