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 desireable, 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 can be awarded (confirmation with Ingo Kunold).

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Fachhochschule Dortmund
University of Applied Sciences and Arts

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)