Specification

| **Training specification** | **Explanation** |
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| Organizer | OMILAB NPO (Germany)  |
| Training Topic | Model-Driven Experimentation: from Design to Modelling to Evaluation |
| Training objectives | Introduction to the foundation of conceptual modelling and metamodeling as a realization paradigm |
| Method | * Explanation of Smart Model Concept
* Guided Case: From Design to Modelling to Evaluation in CPS
* Concept of Abstraction and Decomposition
 |
| Target groups | Any interested stakeholder |
| Recommended composition | Mix of jobs, abilities, gender, work experience |
| Recommended size of groups | 10 |
| Training duration | 1 hours |
| Mode of tutoring | Presentation and Demonstration |
| Mode of provision | Presentation and Demonstration |
| Tools and resources to be used (technological-support tools) | OMILAB Physical Laboratory |
| Recommended preparation | None |
| Modes of working in teams | N/A |
| Communication and cooperation mode | Informal communication |
| Necessary abilities to tackle the tasks of open problems | Creativity, Group working and collaborative skills |
| Knowledge prerequisites  | None |
|  |  |

Competence

| **Competence specification** | **Explanation** |
| --- | --- |
| Knowledge and skills | The students acquire and understand the concept of smart models that connect design thinking with conceptual modelling and evaluation/feasibility assessment |
| Professional competence | Knowledge management and engineering as a SOTA aspect in conceptual modelling |
| General objective | Experience the digital innovation process in practice |

| **Module specification** | **Explanation** |
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| Teacher Name | OMILAB Team Member |
| Training Topic | Model-Driven Experimentation: from Design to Modelling to Evaluation |
| Training Code | OMILAB\_06 |
| Module Name | Model-Driven Experimentation: from Design to Modelling to Evaluation |
| Module duration | 1 h  |
| Module objective | * Identify innovation idea and design methods
* Conceptual modelling (with domain-specific language)
* Decomposition and IOT Adaptors
 |
| Mode of provision | OMILAB Physical Laboratory |
| Laboratory structure | Time (min) | Objective | Performed by? |
| 30 min | Explain the concept of smart models | OMILAB Team |
| 30 min | Demonstration of a case that spans all layers of the laboratory | OMILAB Team |