

Draft version of Day to Day Program Overview Summer School Systems Engineering B26 – Utrecht 2019 – Draft: *Lecturers and topics might still change!*

The program covers 10 days in which 2 excursions will take place. Student groups will work on a case during the program and present their findings the last day of the course. Lectures and workshops are scheduled over 8 days. For the lecturing days the following applies: Lecturing time will be alternated by exercises; cases; assignments for exploring theory, models, methods and techniques. Intervals will be included, as well as a Q&A session. For the days the classes will be held beyond 13:00 hrs a lunch will be provided.

Monday 8 th July 09:00-13:00 hr	Tuesday 9 th July 09:00-13:00 hr	Wednesday 10 th July 09:00-17:00 hr	Thursday 11 th July 09:00-13.00 hr	Friday 12 th July 09:00-13:00 hr
<p>Course Introduction</p> <ul style="list-style-type: none"> - Intercultural aspects in SE <p>Management in SE</p> <ul style="list-style-type: none"> - Professional skills in group - Managing a system - Project Management - Risk management - Roles; Functions; Responsibilities - Implementation 	<p>Introduction SE & V-model</p> <ul style="list-style-type: none"> - What is SE - The Primary Structure of SE - Applying Systems Thinking - Core Framework for SE - Introduction V-model - Alternatives for V-model - Waterfall models <p>Assignment (13.00-15.00)</p> <ul style="list-style-type: none"> - Case introduction - Problem formulation & Plan by students 	<p>Excursion and working on case.</p>	<p>Environment, Stakeholders and Feasibility study, Concept of Operations.</p> <ul style="list-style-type: none"> - The V-model - Environmental analysis - Stakeholder analysis - Feasibility study - Alternative concepts - Concept of Operation 	<p>Requirements analysis</p> <ul style="list-style-type: none"> - From customer specs to Requirements - Types of Requirements - How to formulate good Requirements. - The NASA approach - Composition-decomposition - Models and Methods

Monday 15 th July 09:00-13:00 hr	Tuesday 16 th July 9:00-13:00 hr	Wednesday 17 th July 09:00-17:00 hr	Thursday 18 th July 09:00-13:00 hr	Friday 19 th July 09:00-13:00 hr
<p>Architecture & Technology Management</p> <ul style="list-style-type: none"> - Hierarchy - Systems Breakdown Structure - Interfaces & N2 diagrams - TM overview, activities - Iteration 	<p>ICT & Blockchain in SE</p> <ul style="list-style-type: none"> - ICT & SE; - Blockchain as instrument in SE - Trust; - Architecture - Validation & verification 	<p>Excursion and working on case.</p>	<p>Presentation Skills</p> <ul style="list-style-type: none"> - Introduction & Workshop - Preparing presentation <p>Asset Integrity Management</p> <ul style="list-style-type: none"> - Life cycle management; - Asset Integrity Mngt. - FMEA & risk analysis - Maintenance Strategies 	<p>Presentations</p> <p>Discussions</p> <p>Feed-back rounds</p> <p>Wrap up</p>

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Opening Ceremony Summer School 2019 - July 10 - Location: Janskerk, Janskerkhof - Time: 17.00