

## CoventorWare Detailed Planning

Date/Session	Topic	Proposed Agenda
<b>05/17/21</b> 12:00 PM 03:00 PM	<b>Kickoff:</b> <i>CoventorWare</i> discovery	<ul style="list-style-type: none"> <li>• Generic presentation of CoventorWare               <ul style="list-style-type: none"> <li>○ PowerPoint slides / <i>Start CoventorWare</i></li> </ul> </li> <li>• Introduction to CoventorWare design flow: basic MEMS device               <ul style="list-style-type: none"> <li>○ Open CoventorWare basic MEMS device project, discover process editor, designer, analyzer, Visualizer...</li> <li>○ Run simulation,</li> <li>○ Visualize results,</li> </ul> </li> <li>• Technical presentations part I:               <ul style="list-style-type: none"> <li>○ Designer Layout &amp; meshing,</li> </ul> </li> <li>• Documentation presentation, including tutorials,</li> </ul>
	<i>Homework</i>	<ul style="list-style-type: none"> <li>• SiGe accelerometer: Designer and analyzer sections,</li> <li>• Online quiz</li> </ul>
<b>05/21/21</b> 12:00 PM 03:00 PM	<b>Homework review</b> Q&A	<ul style="list-style-type: none"> <li>• Review of homework SiGe accelerometer: difficulties, explanations, etc,</li> <li>• Online quiz review,</li> <li>• Technical presentations part II:               <ul style="list-style-type: none"> <li>○ Analyzer/Solvers,</li> </ul> </li> <li>• Q&amp;A</li> </ul>

## MEMS+ Detailed Planning

Date/Session	Topic	Proposed Agenda
<b>05/24/21</b> 12:00 PM 03:00 PM	<b>Kickoff:</b> <i>MEMS+</i> discovery	<ul style="list-style-type: none"> <li>• Generic presentation of <i>MEMS+</i> <ul style="list-style-type: none"> <li>○ Slides / <i>MEMS+</i> Design Automation Flow,</li> </ul> </li> <li>• Presentation of <i>MEMS+</i> UI and plugins               <ul style="list-style-type: none"> <li>○ <i>MEMS+</i> demonstration,</li> <li>○ Slides on tab dependency and file extensions,</li> </ul> </li> <li>• Introduction to <i>MEMS+</i> design flow: simple cantilever beam with electrostatics               <ul style="list-style-type: none"> <li>○ Starting from *.mlib files create a first 3 components device (beam, plate + Electrode),</li> <li>○ Parametrized this model / run simulation,</li> </ul> </li> <li>• Technical presentations part I:               <ul style="list-style-type: none"> <li>○ <i>MEMS+</i> physic mechanic</li> <li>○ <i>MEMS+</i> physic electrostatic</li> </ul> </li> <li>• Documentation presentation, including tutorials,</li> <li>• Review the installation of <i>MEMS+</i> and third-party solvers,</li> </ul>
	<i>Homework</i>	<ul style="list-style-type: none"> <li>• SiGe accelerometer: Model Construction and Simulator sections,</li> <li>• Online quiz</li> </ul>
<b>05/28/21</b> 12:00 PM 03:00 PM	<b>Homework review</b> Q&A	<ul style="list-style-type: none"> <li>• Review of homework SiGe accelerometer: difficulties, explanations, etc.</li> <li>• Online quiz review</li> <li>• Technical presentations part II:               <ul style="list-style-type: none"> <li>○ <i>MEMS+</i> physic fluidic</li> <li>○ Best practices for element connection</li> </ul> </li> <li>• Q&amp;A</li> </ul>