

# ISS8AB ADVANCED SOFTWARE ENGINEERING

ISS8AB		Credits : 2 ECTS		Half term: S8	
Advanced Software Engineering		Durée : 21 hours			
Person(s) in charge :					
Laurent CIARLETTA, Associate Professor, <a href="mailto:laurent.ciarletta@mines-nancy.univ-lorraine.fr">laurent.ciarletta@mines-nancy.univ-lorraine.fr</a>					
Keywords : Components assemblage,Software architecture, J2EE, .NET, Web Services, MDA/MDE					
Prerequisite : Object oriented programming, Software Engineering, Networks					
Objective: Software and systems design, complexes components assemblage					
Program and Contents:					
<p>This course includes software architecture notions by the assemblage of software components in order to realize complex applications.</p> <p>It mainly shows how to assemble software components and build interfaces thanks to the assemblage.</p> <p>The class work will mainly concern two environments for deploying these components.</p> <p>Softwares: .NET environment, software components in JAVA, including Javabeans for visual components, and JAVA J2EE (EJB). The concept presentation in regard of the technologies akin to CORBA and web services.</p>					
Abilities:					
Levels		Description and operationnal verbs			
Know		The concepts linked to software architecture, component programming, dominant technologies			
Understand		the different approaches and solutions operated, their differences, their similarities and their complementarity			
Apply		Operating punctual issues			
Analyse		Needs and relevant solutions, debugging tools and distributed performances			
Summarise		Conception realizing, and evaluation of an existing assembled application			
Assess		Frameworks choice, middleware, platform languages			
Evaluations :					
<input checked="" type="checkbox"/> Written Test		<input checked="" type="checkbox"/> Continuous Control		<input type="checkbox"/> Oral report	
				<input checked="" type="checkbox"/> Project	
				<input type="checkbox"/> Written Report	