

ISS8AB ADVANCED SOFTWARE ENGINEERING

ISS8AB Advanced Software Engineering		Credits : 2 ECTS Durée : 21 hours	Half term: S8	
Person(s) in charge : Laurent CIARLETTA, Associate Professor, laurent.ciarletta@mines-nancy.univ-lorraine.fr				
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: This course includes software architecture notions by the assemblage of software components in order to realize complex applications. It mainly shows how to assemble software components and build interfaces thanks to the assemblage. The class work will mainly concern two environments for deploying these components. 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.				
Abilities:				
Levels	Description and operational 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