

- [When](#)
- [Where](#)
 - [Logistics info](#)
 - [Coordination](#)
 - [Sessions](#)
 - [Working Environment](#)
 - [Peer Programming](#)
 - [Groups Assignment](#)
- [Who](#)
 - [Instructors/Speakers](#)
 - [Basic Track](#)
- [Agenda](#)
 - [Day 1 \(Tuesday, September 21st\)](#)
 - [Day 2 \(Wednesday, September 22nd\)](#)
 - [Day 3 \(Friday, September 24th\)](#)
 - [Additional Material](#)

When

From September 21st to 24th, 2021

Where

The workshop will be held virtually. The connection details will be updated as soon as they get confirmed.

Logistics info

[ACS Workshop #12 - Logistics](#)

Coordination

- [Slack](#)

Sessions

- [Zoom](#)
 - Day #1: <https://alma.zoom.us/j/89029446589?pwd=Tmwvb3hwaC9YN1NzbzBWVlIakJhUT09>
 - Day #2: <https://alma.zoom.us/j/85729466050?pwd=OERZRDhzTDltGdLMWNwa0ZSSVFPZz09>
 - Day #3: <https://alma.zoom.us/j/82590067275?pwd=SitRV3hNOWVGQ3hXMGNyZzR1SVc3QT09>
 - Zoom pass: acsws

Working Environment

- [Virtualization](#)
 - [Virtual Box Image](#) (Could be used in VMWare as well)
 - [Docker Container](#)

Peer Programming

- [Visual Studio Code Configuration](#)
 - [Visual Studio Code](#)
 - [Live Share Plugin](#)

Groups Assignment

- [Groups List](#)

Who

Legend of background colors:

- [PARTICIPANT](#)
- [SPEAKER](#)
- [INSTRUCTOR](#)

Instructors/Speakers

#	Name	Role	C++	Java	Python
---	------	------	-----	------	--------

1	Tomas Staig	SPEAKER INSTRUCTOR	✓	✓	✓
2	Jorge Avarias	SPEAKER INSTRUCTOR	✓	✓	✓
3	Camila Martinez	SPEAKER INSTRUCTOR	✓	✓	✓

Basic Track

#	Name	C++	Java	Python
1	Maria Jesus Lopez			✓
2	Rosita Hormann			✓
3	user-a3daa		✓	
4	Francisco Caro			✓
5	Isaac Goicovich			✓

Agenda

It is assumed that all participants are sufficiently knowledgeable about object oriented programming in C++, Java and/or python. Links to relevant information can be found in the reference documentation (see below). The course is based on [previous experiences](#) that have been organized since 2004 and consists of a technical hands-on course using the ALMA Common Software (ACS) framework, alternated with short technical talks and discussions.

- Course project: [Observatory Software Toy Model](#)
- [Reference documentation](#)
- [Group Exercises](#)

Day 1 (Tuesday, September 21st)

Time CLST	Duration	Basic Track	Guiding instructor
09:00	0:30	General overview of ACS	Tomas Staig
09:30	0:30	Component/Container Model and Lifecycle Management	Jorge Avarias
10:00	0:30	Basic ACS environment and functionalities, Software Engineering Basics and Setting up a Development Environment	Tomas Staig
10:30	-	Break	
11:00	0:30	ALMA Software Big Picture	Camila Martinez, Jorge Avarias
11:30	0:20	Project definition and group assignments	Jorge Avarias, Jorge Avarias
11:50	0:40	Group Exercise: HelloComponent Example	Camila Martinez
12:30	0:30	Group exercise: Component functionality development Documentation: Java: https://confluence.alma.cl/display/ICTACS/ACS+Java+Component+Tutorial C++: https://confluence.alma.cl/display/ICTACS/BACI+Device+Server+Programming+Tutorial Python: http://www.eso.org/projects/alma/develop/acs/OnlineDocs/ACSPython.pdf	Camila Martinez, Jorge Avarias, Tomas Staig
13:00	-	Break	
14:30	1:30	Group exercise: Component functionality development Documentation: Java: https://confluence.alma.cl/display/ICTACS/ACS+Java+Component+Tutorial C++: https://confluence.alma.cl/display/ICTACS/BACI+Device+Server+Programming+Tutorial Python: http://www.eso.org/projects/alma/develop/acs/OnlineDocs/ACSPython.pdf	Camila Martinez, Jorge Avarias, Tomas Staig
16:00	0:30	Group exercise: First integration	Camila Martinez
16:30	5:30	End of day	

Day 2 (Wednesday, September 22nd)

Time CLST	Duration	Basic Track	Guiding instructor
09:00	0:20	Configuration Database	Tomas Staig
09:20	0:20	GIT	Jorge Avarias
09:40	1:00	Group exercise: Component functionality development	Camila Martinez , Jorge Avarias , Tomas Staig
10:40	-	Break	
11:00	0:40	Group exercise: Component functionality development	Camila Martinez , Jorge Avarias , Tomas Staig
11:40	0:20	Group exercise: Second integration	Camila Martinez
12:00	-	Break	
15:00	0:30	Logging and Error Systems Overview	Jorge Avarias
15:30	1:15	Group exercises: Component functionality development / Adding logging and error handling	Camila Martinez , Jorge Avarias , Tomas Staig
16:45	0:15	Group exercise: Third Integration	Camila Martinez
17:00	5:00	End of day	

Day 3 (Friday, September 24th)

Time CLST	Time	Basic Track	Guiding instructor
09:30	0:30	Logging and Error Systems Hands-on	Tomas Staig
10:00	1:00	Group exercises: Component functionality development / Adding logging and error handling	Camila Martinez , Jorge Avarias , Tomas Staig
11:00	-	Break	
11:15	1:00	Group exercises: Component functionality development / Adding logging and error handling	Camila Martinez , Jorge Avarias , Tomas Staig
12:15	0:30	Group exercise: Final Integration	Camila Martinez
12:45	0:15	Wrap up and discussions	
13:00	3:30	End of day	

Additional Material

- Before the workshop
 - [ACS Workshop - Distributed Systems and CORBA Standard](#)
 - [A Trip through ACS Functionality](#)
 - [Project Lifecycle](#)
- During the workshop
 - [ACS Workshop - Project Details](#)
 - [ACS Workshop - Day 4](#)
- After the workshop
 - [Set up test CDB with a simulated component](#)
 - [Characteristic components: BACI Properties and DevIOs](#)