

# UA 522 Parallel and Distributed Computing

<b>Course Code:</b>	UA 522
<b>UTAA Credit (Theoretical-Laboratory hours/week):</b>	3(3-0)
<b>ECTS Credit:</b>	6.0
<b>Department:</b>	Unmanned and Autonomous System Engineering
<b>Language of Instruction:</b>	English
<b>Level of Study:</b>	Graduate
<b>Offered Semester:</b>	Fall and Spring Semesters.

## Course Objectives

The course consists of 2 parts. Part 1 focuses on threads, shared variables and their software. Part 2 emphasizes on parallel programming aspects; message passing, RPC, and rendezvous

## Course Content

Threads, shared data and its software; message passing, RPC, and rendezvous in parallel systems

## Course Learning Outcomes

- 1-Have a basic understanding of basic concepts of distributed systems
- 2- a basic understanding of basic concepts of parallel systems
- 3- programs for parallel systems
- 4-Produce new ideas on designing new data structures
- 5-Understand generally the fundamental concepts such as shared data, synchronization, and rendezvous