

BMUH 542 Parallel and Distributed Computing

Course Code:	BMUH 542
UTAA Credit (Theoretical-Laboratory hours/week):	3(3-0)
ECTS Credit:	6.0
Department:	Electrical and Computer Engineering
Language of Instruction:	English
Level of Study:	Graduate
Offered Semester:	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