

Faculty of Computers and Information Technology

Distributed and Parallel Computer Systems

Information :

Course Code : ITC 414

Level : Undergraduate

Course Hours : 3.00- Hours

Department : Department of Computer Science

Instructor Information :

Title	Name	Office hours
Associate Professor	Soha Safwat Labib Hana	
Teaching Assistant	Mariam Ali Ibrahim Elsayed	1

Description :

Scalable computer platforms & models; Shared-memory multiprocessors; Distributed memory and latency tolerance; Caches; protocols and synchronization; Clustering; Scalable multiprocessors; Parallel and vector architectures; Interconnection topologies; The parallelizing process. Data access & communication in multi-memory systems; Software for performance metrics; benchmarks; Synchronization mechanisms; Distributed memory system and protocols; Parallel programming; Message-passing programming; Resource allocation and concurrency control.