

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 |
|--------------------|---|--------------|
| Lecturer | Mohamed Ahmed Hussein Ali | 4 |
| Teaching Assistant | Tasnim Salah Abdelraaouf Mahmoud Kandil | |

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.