

Hassiba Benbouali University - Chlef

Faculty of Exact Sciences and Informatics

Computer Science Department



Dissertation

Graduation Project for the award of a

COMPUTER SCIENCE BACHELOR DEGREE

Specialty: Computer Systems

By

Abdelhalim Esselami Abdelkadir Cheklal

CNAS Virtual Counter

June, 1st 2023 In front of the jury composed of:

Mr. Zouaoui Guellil UHB-Chlef Examiner

Mr. Chahreddine Medjahed UHB-Chlef Examiner

Mr. Walid Kadri UHB-Chlef Supervisor

Mr. Abdellatif Esselami Computer Engineer / CNAS Co-Supervisor

2022-2023