**Abstract**

**TITLE:** DESIGN OF AN EXTENSIBLE WEB APPLICATION TO MANAGE AN IOT PLATFORM FOR SMART CAMPUS

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**KEYWORDS:** IOT, SMART CAMPUS, APPLICATION, WEB

**DESCRIPTION:**

The technological growth of our time has connected the world and allowed the flow of information to and from different places. Through the Internet of Things it is possible for common objects to become intelligent, send and receive information which, if used correctly, would automate daily tasks.

This technological aspect can be applied to different scales, in this case it’s intended to a University, to make use of the IoT to improve the quality of life of the individuals who make use of the facilities through the transformation of these into intelligent universities (Smart Campus) for instance optimizing physical resources through inventories, measuring the energy used, air quality or temperature in specific campus facilities.

In this bachelor thesis it’s presented the design of a Web application to manage a Smart Campus architecture allowing the users to register and manage their applications and the devices associated with them, allowing them also to create applications that contribute to generate this digital transformation.

At the end a use case was developed to test the functionalities of the Web application and the correct integration of the components that make up the Smart Campus platform.

\*Bachelor Thesis

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