Title: **Wireless electrochemical sensors**

Student: German Martínez Gallardo

Date: June 2020

Supervisor/s: Dr. Maria Cristina Ariño Blasco
Department of Chemical Engineering and Analytical Chemistry

Wireless electrochemical sensors are devices that collect (bio)chemical data from their environment which are processed and transmitted to a remote device by wireless technology, most commonly radio-communications. These sensors provide real-time information, which can be useful for industrial process monitoring, for health-related applications and environmental control. Firstly, a brief introduction has been made defining electrochemical sensors, in which their structure is detailed, and which techniques are the most commonly used, followed by quick presentation of the wireless sensor networks and their performance. Secondly, a bibliographic research has been done in which recent articles have been searched where it stands out the use of wireless electrochemical sensors for all kind of applications. As a result, the use of these sensors has been found to have great potential owing to their great versatility and wide field of applications.

Keywords: wireless electrochemical sensors, wireless sensor networks (WSN), wearable sensors, industrial sensors, environmental sensors.