

# **A WEB BASED TRAINING TOOL ON GSM SWITCHING SUBSYSTEMS**

Patrick Renno, Hassan Diab, and Issam Damaj  
[prinno@libancell.com.lb](mailto:prinno@libancell.com.lb), [diab@aub.edu.lb](mailto:diab@aub.edu.lb), [issamwd@ieee.org](mailto:issamwd@ieee.org)  
Department of Electrical and Computer Eng'g  
Faculty of Engineering and Architecture  
American University of Beirut  
Beirut, Lebanon  
Tel: +961-1-350000\3520  
Fax: +961-1-744462

P.O. BOX 110236

## **Abstract**

**This paper introduces a web training tool which addresses GSM switching subsystems, starting from basic knowledge about mobile communication and digital telephony, covering the signaling system No.7 which is a universal signaling system used worldwide for voice and/or data transmission. The new web based training (WBT) tool was designed to meet the needs of different users, whether they are students, teachers or experienced engineers. Tests have been included to keep a challenging environment between the user and the tool. The WBT tool can be accessed from any system with an Internet connection, and can be easily upgraded to match the needs of up-to-date technologies. Different animations have been included, to facilitate the understanding of the material.**

## **Keywords**

**Web Based Training, Computer Based Training, GSM, Telephony, Signaling Systems.**