

Remote Wireless Communications Lab in Real Time

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Abstract : Technology nowadays enables the remote access to laboratory equipment and instruments via Internet. This is especially useful in engineering education, where students can conduct laboratory experiment remotely. Such remote laboratory access can enable student to use expensive laboratory equipment, which is not usually available to students. In this paper, we present a method of creating a Web-based Remote Laboratory Experimentation in the master degree course "Wireless Communications Systems" which is part of "ICS (Information and Communication Systems)" and "Investment Management in Telecommunications" curriculums. This is done within the RIPLECS Project and the NI2011 FF005 Research Project "Implementation of Project-Based Learning in an Interdisciplinary Master Program".

Keywords : remote access, remote laboratory, wireless telecommunications, external antenna-switching controller board (EASCB)

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