



# Biomedical Engineering Seminar Series

2nd Semester, Academic Year 2018

Date: January 29, 2019

Time: 10.00-11.00 AM

Room 6373, 3<sup>rd</sup> level, Building 3,

Faculty of Engineering; Mahidol University



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## "Electromagnetic and Microwave Sensors in Modern Multidisciplinary Applications"

The contents of this seminar include the introduction in the electromagnetic and microwave sensors with examples in modern multidisciplinary applications. Based on the interaction between material properties and electromagnetic fields and waves, they can be characterized using electromagnetic sensors. In addition, by making use of modified coupling of fields, reflection and transmission of signals, movement and object identification e.g. in case of RFID can also be detected. In some applications, electromagnetic and microwave sensors can offer economic and precise solutions including medical, petrochemical, environmental, food science, etc. Therefore, such sensors will be important components, for example, in IoT devices which will enable the ideas of smart city and factory in the near future.

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