

Department of Electrical and Computer Engineering

Seminar Series Title: "Thin Film Electronics"

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Abstract:

The seminar series will focus in the field of Thin-Film Electronics and how fabrication technologies can be used to fabricate several organic and flexible electronic components, alternative energy sources, piezoelectric nanogenerators and various types of sensors. The series will be divided into 5 seminars as shown:

Title	Date	Room
Organic electronics–materials, technologies and applications	20/05/2019 1400-1600	XΩΔ02 - 013
Flexible electronics–problems, solutions and unsolved challenges	21/05/2019 1400-1600	XΩΔ02 - 012
Microelectronic technologies for alternative energy sources	22/05/2019 1400-1600	XΩΔ02 - 013
Piezoelectric nanogenerators	23/05/2019 1400-1500	XΩΔ02 - 013
Sensors and systems for force detection	24/05/2019 1400-1500	XΩΔ02 - 013

Biography:

Dr. Mariya Aleksandrova is an associate professor in the Department of Microelectronics at the Faculty of Electronic Engineering and Technologies, Technical University of Sofia. She obtained her PhD in 2010, in technologies for electronic manufacturing from the Technical University of Sofia, Bulgaria, Faculty of Electronic Engineering and Technologies, Department of Microelectronics.

Her research is related to material science and technologies for micro- and nanoelectronic devices. More specifically her research is directed towards thin-film deposition, organic semiconductors, flexible electronics, organic light-emitting devices, displays, gas sensors and sensing mechanisms, piezoelectric energy harvesting devices and electrochromic coatings. Her current projects are in the field of fabrication and testing of flexible polymeric optoelectronic devices, application of different deposition methods for small molecule based electroluminescent layers, preparation and investigation of multilayer electroluminescent structures with organic semiconductors.