



UPM International Summer School

Biomed Tech



ETSIT, 1, 2 & 5 July 2019

Director: Dr. María J. Ledesma Carbayo

Biomedical technology deals with innovation in biomedical technologies especially trends in the development of new devices or solutions that solve specific unmet needs.

Students: Bachelor or master students can attend this course.

Pre-requisites: No pre-requisites except a motivation to solve health-related needs.

ECTS: 1 (10 class hours)





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Syllabus

- MODULE 1: I. Introduction to the biomedical technologies field
II. Current technologies and future trends in the biomedical imaging field
- MODULE 2: I. Biomedical technologies social and environmental risks. Global social impact.
II. A workshop to identify and design new biomedical technology by teams
- MODULE 3: The role of biomedical engineering in a Medtech company. Innovation in healthcare solutions and in business development
María García de Pablo, Medtronic

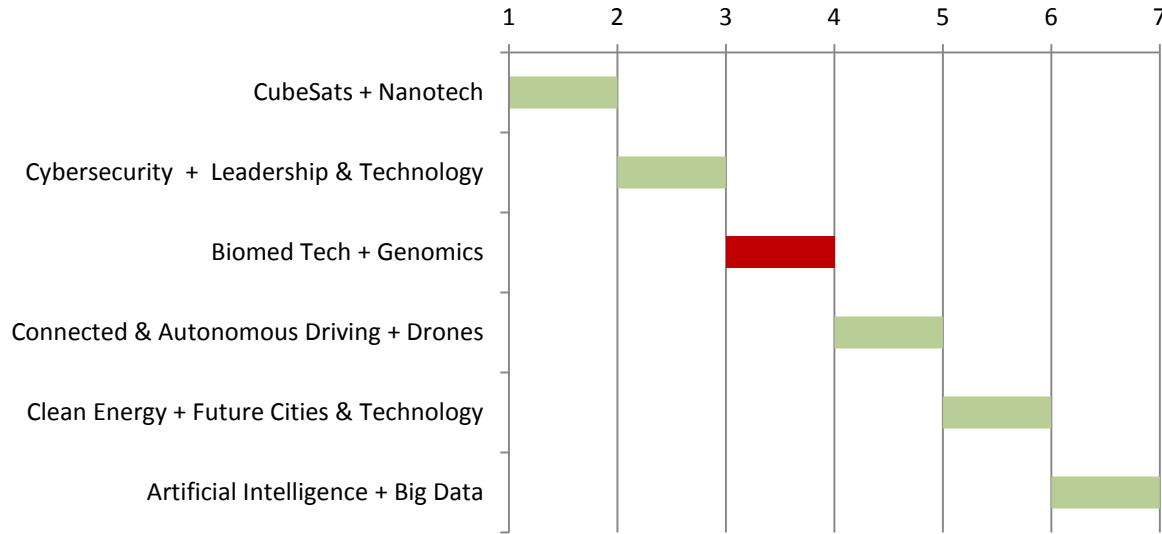




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Schedule



Week	Monday	Tuesday	Wednesday	Thursday	Friday
3	Lecture Workshop	Lecture Workshop Visit			Industry Talk



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Faculty



María J. Ledesma Carbayo is associate professor at the School of Telecommunications Engineering, Universidad Politécnica de Madrid, and research scientist in bioengineering, biomaterials and nanomedicine at the Biomedical Research Networking Center (Instituto de Salud Carlos III, 2010 Consolider-Ingenio Initiative). She holds a BSc in Telecommunications Engineering, and an MSc in Biomedical Engineering and Medical Physics, and a PhD from UPM. Her main research motivation relates to improving health care delivery through advances in biomedical imaging technologies, providing technological solutions to actual clinical or biological problems. Her research in biomedical image processing has been published in more than 100 journals and conferences.

María García de Pablo holds a BSc in Telecommunications Engineering from the Universidad Politécnica de Madrid and an MSc in Biomedical Engineering from the University of Patras in Greece and an Executive MBA from the IE Business School. María joined Medtronic in 2002 as sales manager and product specialist in CRDM (Cardiac Rhythm Disease Management) where she primarily developed technical, commercial and marketing activities. In 2008, María assumed leadership of the Clinical Science Department at the national level. Since 2011, she has managed the Therapy Development Department, where she has led the SCOOP project, a nationwide network of scientific cooperation. In 2015 María joined the Integrated Health Solutions Division as Head of the Business Development Department for Iberia and holds responsibility for capturing market opportunities, developing and accelerating the signing of contracts in the field of hospital solutions.

