



SHORT COURSE OF CyTeS

“PATTERNING AND STRUCTURATION OF SURFACES”

Organization: CyTeS Group, the Specialized Group in Surface Science and Technology offers this Short Course, which will be given during the joint celebration of the RIVA-XI and IBERTRIB congresses (Seville, June 19-21, 2019).

Objective: This short-course seeks to present in a condensed format the fundamentals, methods and applications of the most innovative "top-down" and "bottom-up" technologies of micro-nanostructuring and "patterns" of surfaces, where the latest advances towards the industry 4.0 will be highlighted. .

Topics: 1) Nano-lithography techniques, 2) Chemical techniques, 3) Techniques based on electron beams, 4) Laser processing techniques and 5) Additive manufacturing.

The control of the micro or nanostructure of a surface, as well as the formation of regular patterns on it, is an essential requirement in many current scientific-technological areas. Some notable examples of these techniques are, for example, the use of ultra-fast lasers to modify the topography of the surface to the micro and nanoscale or additive manufacturing, which has recently broken into the industry and is going to mark a before and after in the classic manufacturing chains. The application of these surfaces is of special interest in biomedicine, photonics, architecture, automotive, aeronautics, space technology, etc.

CyTeS Group invites all participants of this RIVA XI-Ibertrib conference to enroll at , to companies that want to know the latest trends at the international level, to innovators who want to be up-to-date on new technologies, to all researchers or teachers of research centers, technology centers and universities and especially students in advanced stages of training.

CyTeS Group also wants to give an opportunity to exchange ideas and form a network between technology companies and potential users of these techniques, both in the field of research and commercial.

By selecting teachers from academic and industry, this Short Course aims to present its content not only from an academic point of view but also from a practical approach.

The RIVA X - IBERTRIB joint conference will be an optimal place for the celebration of this unique Short Course.

Duration: 6 hours.

Registration: Open, web page of the conference RIVA XI - IBERTRIB.

Registration Deadline: June 16th, 2019

Short Course Fees: Regular participant 150€ / Student 60€ /PhD students of the Program of Materials Science and Technology of the University of Seville 0 € (all the participants to IBERTRIVA conference will have a benefit of 50% reduction).