

ESA/JRC International Summer School on GNSS 2017

The 11th edition of the ESA/JRC International Summer School on GNSS 2017 will be held in Longyearbyen, Svalbard-Spitsbergen, Norway, from 4th to 15th September 2017, close to the world's northernmost Galileo station.

This extraordinary location has become possible through the generous support of the Norwegian Space Centre, the European Space Agency, the Joint Research Centre (EC) and various sponsors.

A unique opportunity for young researchers in satellite navigation to gain first-class knowledge from worldwide lecturers while experiencing the Arctic environment.

The ten-day course will cover all aspects of satellite navigation, up to and including the creation of a satnav-based business.

The Summer School is open to graduate students, PhDs and postdoctoral researchers, as well as young engineers and academics working within industry or agencies, aged 35 or younger.

Register before the end of April to benefit from an early registration discount. The number of participants is limited to 50, on a first come, first served basis.

Internationally renowned scientists and specialists will be giving lectures as well as overseeing practical exercises and lab work.

Participants will receive a full-spectrum overview of satellite navigation, starting from the theoretical basis of the Global Navigation Satellite System, its signals, the processing performed by signals and receivers and how the position-navigation-time solution is worked out. The modernization and the evolution of the Global Positioning Systems is discussed.

Discussion will also be made of threats to satnav systems, such as spoofing or jamming, and the countermeasures available against them, along with back-up navigation solutions for a GNSS-denied environment.

Practical exercises will include receiving the various satnav constellations now in orbit – including Europe's eighteen-satellite Galileo, the foundation of the full system soon to come – to give course members direct, hands-on experience.

In addition, lectures will cover business aspects, including patents and intellectual property rights.

The main emphasis of the course will be the development of a group business project, building on an innovative idea to take in the planning of the product or service, its technical realisation and finally its marketing to customers as well as on ideas for the second generation of Galileo.

Breath-taking excursions in the Arctic environment allow the participants a break from the intense work in the Summer School.

The ESA/JRC International Summer School is taking place in conjunction with the Joint Research Centre of the European Commission, and is organized by the Universität der Bundeswehr München in cooperation with the Norwegian Space Centre as well as with Stanford University in the United

States, the Institut Supérieur de l'Aéronautique et de l'Espace (ISAE SUPAERO) in France and Graz Technical University in Austria.

For more detailed information and registration see www.esa-jrc-summerschool.org