

# GNSS and Augmentation Systems in Aviation-Specific Applications



<b>Date</b>	On request
<b>Venue</b>	Estonian Aviation Academy / at the client's if agreed so
<b>Schedule and additional information</b>	The precise schedule shall be sent to the participants at least a week prior to the commencement of the course
<b>Format of studies</b>	Classroom teaching
<b>Language(s) of instruction</b>	Estonian or English
<b>Lecturer(s)</b>	Leho Roots, MSc
<b>Volume</b>	7 academic hours
<b>Price</b>	As agreed on
<b>Target group</b>	Technical personnel and those engaged in applying GNSS procedures, air traffic controllers. The course programme shall be adapted to the actual level of participants
<b>Size of group</b>	6 – 12
<b>Goal / learning outcomes</b>	<ul style="list-style-type: none"><li>• Has got an overview of the situation and opportunities of satellite navigation in the year 2015.</li><li>• Knows the fundamentals of GPS, understands the possible errors in positioning and the limits of its reliability and integrity.</li><li>• Knows and understands the functioning principles of GNSS augmentation systems, of their importance and inevitability in aviation applications.</li><li>• Has got acquainted with and knows about the principles of GNSS instrument approach, and is aware of the actual situation in this field in the autumn of 2015.</li><li>• Has got an understanding about the GLS perspective at Tallinn airport.</li><li>• Is aware and understands the factors of GNSS approach having impact on safety, and knows the ways of their assessment and management.</li></ul>
<b>Topics</b>	<ul style="list-style-type: none"><li>• An overview of satellite navigation and its opportunities.</li><li>• Fundamentals of GPS.</li><li>• The accuracy of GPS and the ratio of errors.</li><li>• GNSS augmentation systems, increasing the accuracy and ensuring the integrity.</li><li>• GNSS instrument approach and the related situation in Estonia.</li><li>• GLS perspective at Tallinn airport.</li><li>• Assuring safety of GNSS procedures.</li></ul>
<b>Requirements set for passing the course</b>	Participation – 100%, passing the final test (multiple choice)
<b>Documents issued on completion of the course</b>	Certificate issued by Estonian Aviation Academy

**Registration and  
further information**

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