

## Course: T131-18 (GNSS for Policy and Decision Makers)

14 January 2019 (Day 1)		
Time	Course Description	Lecturer
08:00 - 08:30	Registration	
08:30 - 09:00		
09:00 - 09:30	Opening Ceremony	
09:30 - 10:30	Presentation on ICG GIC Presentation Course Introduction	Sharafat Gadimova, UNOOSA/ICG, Austria Manzul Hazarika, GIC/AIT, Thailand Dinesh Manandhar, The University of Tokyo, Japan
10:30 - 11:00	Break	
11:00 - 11:30	Navigation Satellite Concept & History	Ashman Benjamin, NASA GSFC, United States Dinesh Manandhar, The University of Tokyo, Japan
11:30 - 12:30	GPS Introduction	Ashman Benjamin, NASA GSFC, United States Dinesh Manandhar, The University of Tokyo, Japan
12:30 - 13:30	Lunch	

13:30 - 14:30	GALILEO Introduction	Andreas Schutz, Universität der Bundeswehr München, Germany
14:30 - 15:30	Other GNSS Introduction (BDS, QZSS, GLONASS, IRNSS)	Dinesh Manandhar, The University of Tokyo, Japan
15:30 - 16:00	Break	
16:00 - 17:00	GPS Applications	Ashman Benjamin, NASA GSFC, United States Dinesh Manandhar, The University of Tokyo, Japan
17:00 - 17:30	SBAS / EGNOS Introduction	Gabriella Povero, Int. Cooperation on GNSS, Istituto Superiore Mario Boella, Italy
<b>15 January 2019 (Day 2)</b>		
<b>Time</b>	<b>Course Description</b>	<b>Lecturer</b>
08:00 - 08:30		
08:30 - 09:00	ICG Activities for Capacity Development	Sharafat Gadimova, UNOOSA/ICG, Austria
09:00 - 09:30	Brief GNSS Signal Introduction	Gabriella Povero, Int. Cooperation on GNSS, Istituto Superiore Mario Boella, Italy

09:30 - 10:30	GNSS Receiver Introduction (How does a GNSS Receiver Work?)	Gabriella Povero, Int. Cooperation on GNSS, Istituto Superiore Mario Boella, Italy
10:30 - 11:00	Break	
11:00 - 12:00	GALILEO Applications	Gabriella Povero, Int. Cooperation on GNSS, Istituto Superiore Mario Boella, Italy
12:00 - 12:30	GNSS Markets	Gabriella Povero, Int. Cooperation on GNSS, Istituto Superiore Mario Boella, Italy
12:30 - 13:30	Lunch	
13:30 - 14:30	GALILEO Applications	Andreas Schutz, Universität der Bundeswehr München, Germany
14:30 - 15:30	GNSS Downstream Markets	Martin Sunkevic, GNSS Space Agency (GSA) (Online Lecture, GSA, Czech Republic)
15:30 - 16:00	Break	
16:00 - 17:00	How to Log GNSS Data? GNSS Field Survey	Dinesh Manandhar, The University of Tokyo, Japan Ashman Benjamin, NASA GSFC, United States Gabriella Povero, Int. Cooperation on GNSS, Istituto Superiore Mario Boella, Italy Andreas Schutz, Universität der Bundeswehr München, Germany

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17:00 - 17:30	Looking at GNSS Data Data Formats etc	Dinesh Manandhar, The University of Tokyo, Japan
<b>16 January 2019 (Day 3)</b>		
<b>Time</b>	<b>Course Description</b>	<b>Lecturer</b>
08:00 - 08:30		
08:30 - 09:00	Sponsor's Presentation	Septentrio
09:00 - 09:30	How to Read GNSS Receiver Technical Specifications?	Dinesh Manandhar, The University of Tokyo, Japan
09:30 - 10:30	GNSS Survey Methods SPS, DGPS, RTK and PPP	Dinesh Manandhar, The University of Tokyo, Japan
10:30 - 11:00	Break	
11:00 - 12:00	Errors, Datums, Coordinate Systems	Gabriella Povero, Int. Cooperation on GNSS, Istituto Superiore Mario Boella, Italy

12:00 - 12:30	Useful Software, Tools, Global Base-Station Data etc	Gabriella Povero, Int. Cooperation on GNSS, Istituto Superiore Mario Boella, Italy Dinesh Manandhar, The University of Tokyo, Japan Avinab Malla, Nepal
12:30 - 13:30	Lunch	
13:30 - 14:30	Micro-Project to Establish GNSS Technology	Dinesh Manandhar, The University of Tokyo, Japan Gabriella Povero, Int. Cooperation on GNSS, Istituto Superiore Mario Boella, Italy Ashman Benjamin, NASA GSFC, United States
14:30 - 15:30		
15:30 - 16:00	Break	
16:00 - 17:00	Micro-Project to Establish GNSS Technology & Report Preparation	Dinesh Manandhar, The University of Tokyo, Japan Gabriella Povero, Int. Cooperation on GNSS, Istituto Superiore Mario Boella, Italy Ashman Benjamin, NASA GSFC, United States
17:00 - 18:00	Each Team Presents the Report (Joined by T-151 Participants)	
18:30 - 21:00	Networking Dinner at AIT Center	
<b>17 January 2019 (Day 4)</b>		
<b>Time</b>	<b>Course Description</b>	<b>Lecturer</b>

08:00 - 08:30		
08:30 - 09:00	Sponsor's Presentation	
09:00 - 09:30	Introduction to RTKLIB Android APPS to Log GNSS Data Sample Data Log in the Field	Dinesh Manandhar, The University of Tokyo, Japan GIC
09:30 - 10:30		
10:30 - 11:00	Break	
11:00 - 12:00	Invited Lecture: Earthquake Monitoring and Forecasting by GNSS	Shunji Murai, Professor Emeritus, The University of Tokyo, Japan
12:00 - 12:30		
12:30 - 13:30	Lunch	
13:30 - 14:30	GNSS Data Processing	
14:30 - 15:30		
15:30 - 16:00	Break	

16:00 - 17:00	Discussion on GNSS Data Processing Outputs	
17:00 - 17:30	Report Preparation Report Format Word and PPT Versions	Dinesh Manandhar, The University of Tokyo, Japan
<b>18 January 2019 (Day 5)</b>		
<b>Time</b>	<b>Course Description</b>	<b>Lecturer</b>
08:00 - 08:30		
08:30 - 09:00	Sponsor's Presentation	
09:00 - 09:30	GNSS Data Processing	
09:30 - 10:30	GNSS Data Processing	
10:30 - 11:00	Break	
11:00 - 12:00	Report Preparation	

12:00 - 12:30	
12:30 - 13:30	Lunch
13:30 - 14:30	Presentation by Each Team
14:30 - 15:30	
15:30 - 16:00	Break
16:00 - 17:00	Program Review Course Evaluation Certification Distribution Closing Ceremony
17:00 - 17:30	Group Pictures Data Sharing etc