

Course: T151-30 (GNSS Training)

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	Group Photo, 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
15 January 2019 (Day 2)		
Time	Course Description	Lecturer
08:00 - 08:30		

08:30 - 09:00	ICG Activities for Capacity Development	Sharafat Gadimova, UNOOSA/ICG, Austria
09:00 - 09:30	QZSS Applications	Dinesh Manandhar, The University of Tokyo, Japan
09:30 - 10:30	GPS Signal Structure	Ashman Benjamin, NASA GSFC, United States
10:30 - 11:00	Break	
11:00 - 12:00	GALILEO Signal Structure	Gabriella Povero, Int. Cooperation on GNSS, Istituto Superiore Mario Boella, Italy
12:00 - 12:30	Other GNSS Signal Structure	Dinesh Manandhar, The University of Tokyo, Japan
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 GIC
17:00 - 17:30	Looking at GNSS Data Data Formats etc	Dinesh Manandhar, The University of Tokyo, Japan
16 January 2019 (Day 3)		
Time	Course Description	Lecturer
08:00 - 08:30		
08:30 - 09:00	Sponsor's Presentation	Septentrio
09:00 - 09:30	GNSS Receiver Introduction	Gabriella Povero, Int. Cooperation on GNSS, Istituto Superiore Mario Boella, Italy

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	Introduction to RTKLIB	Nobuaki Kubo, Tokyo University of Marine Science and Technology, Japan
12:00 - 12:30	Android APP for GNSS Data Logging	Avinab Malla, Nepal
12:30 - 13:30	Lunch	
13:30 - 14:30	GNSS Data Processing with Sample Data	Nobuaki Kubo, Tokyo University of Marine Science and Technology, Japan
14:30 - 15:30		
15:30 - 16:00	Break	
16:00 - 17:00	GNSS Data Processing	Nobuaki Kubo, Tokyo University of Marine Science and Technology, Japan

17:00 - 18:00	Attend T-131 Group's Presentation	
18:30 - 21:00	Networking Dinner at AIT Centre	
17 January 2019 (Day 4)		
Time	Course Description	Lecturer
08:00 - 08:30		
08:30 - 09:00	Sponsor's Presentation	
09:00 - 09:30	GNSS Field Survey	Nobuaki Kubo, Tokyo University of Marine Science and Technology, Japan Gabiella Povero, Int. Cooperation on GNSS, Istituto Superiore Mario Boella, Avinab Malla, Italy GIC
09:30 - 10:30	GNSS Data Processing	Nobuaki Kubo, Tokyo University of Marine Science and Technology, Japan Gabiella Povero, Int. Cooperation on GNSS, Istituto Superiore Mario Boella, Avinab Malla, Italy GIC
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	Dinesh Manandhar, The University of Tokyo, Japan Nobuaki Kubo, Tokyo University of Marine Science and Technology, Japan Gabiella Povero, Int. Cooperation on GNSS, Istituto Superiore Mario Boella, Italy GIC
14:30 - 15:30		
15:30 - 16:00	Break	
16:00 - 17:00	Discussion on GNSS Data Processing Outputs	Dinesh Manandhar, The University of Tokyo, Japan Nobuaki Kubo, Tokyo University of Marine Science and Technology, Japan Gabiella Povero, Int. Cooperation on GNSS, Istituto Superiore Mario Boella, Italy GIC
17:00 - 17:30	Report Preparation Report Format Word and PPT Versions	Dinesh Manandhar, The University of Tokyo, Japan

18 January 2019 (Day 5)

Time	Course Description	Lecturer
08:00 - 08:30		
08:30 - 09:00	Sponsor's Presentation	
09:00 - 09:30	GNSS Data Processing	Dinesh Manandhar, The University of Tokyo, Japan Nobuaki Kubo, Tokyo University of Marine Science and Technology, Japan Gabriella Povero, Int. Cooperation on GNSS, Istituto Superiore Mario Boella, Italy GIC
09:30 - 10:30	GNSS Data Processing	Dinesh Manandhar, The University of Tokyo, Japan Nobuaki Kubo, Tokyo University of Marine Science and Technology, Japan Gabriella Povero, Int. Cooperation on GNSS, Istituto Superiore Mario Boella, Italy GIC
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