Winter School on

Physical Geodesy & Its applications

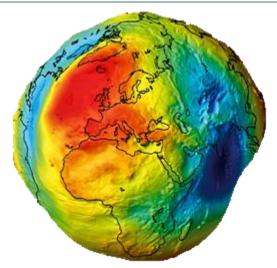


Image courtesy ICGEM

15-24 February 2021



Instructors



Dr. Balaji Devaraju
Assistant Professor
Department of Civil Engineering, IIT Kanpur
Room: 302 Western Laboratory Extension
Email: dbalaji@iitk.ac.in



Dr. Sten Claessens
Senior Lecturer
School of Earth and Planetary Science,
Curtin University, Perth
Email: S.Claessens@curtin.edu.au



Dr. Onkar Dikshit
Professor
Department of Civil Engineering, IIT Kanpur
Coordinator, National Centre of Geodesy
Room: 303A Western Laboratory Extension
onkar@iitk.ac.in



Maj. Gen. Dr. B. Nagarajan
Visiting Professor
Department of Civil Engineering, IIT Kanpur
Chair, National Geodesy Program
Room: 331 Faculty Building
Email: nagaraj@iitk.ac.in

1

Program

Monday, 15 February 2021				
09:45 - 10:00	Opening and Programmatics	Balaji Devaraju		
10:00 - 11:30	Geometric Geodesy - I	B. Nagarajan		
11:30 - 11:45	Session Break			
11:45 - 13:15	Geometric Geodesy - II	B. Nagarajan		
	Lunch			
14:30 - 16:00	Coordinate Transformation	Satyam K Choubey		
16:00 - 16:30	Session Break			
16:30 - 18:00	Time Systems	Satyam K Choubey		
Tuesday, 16	February 2021			
10:00 - 11:30	Potential Theory	Sten Claessens		
11:30 - 11:45	Session Break			
11:45 - 13:15	Adjustment Theory - I	Onkar Dikshit		
Lunch				
14:30 - 16:00	GGM	Satyam K Choubey		
16:00 - 16:30	Session Break			
16:30 - 18:00	GGM	Satyam K Choubey		
Wednesday, 17 February 2021				
10:00 - 11:30	Gravity anomalies	Sten Claessens		
11:30 - 11:45	Session Break			
11:45 - 13:15	Adjustment Theory - II	Onkar Dikshit		
	Lunch			
14:30 - 16:00	Gravity Reductions	Rupesh Goyal		
16:00 - 16:30	Session Break			
16:30 - 18:00	Gravity Reductions	Rupesh Goyal		

Program

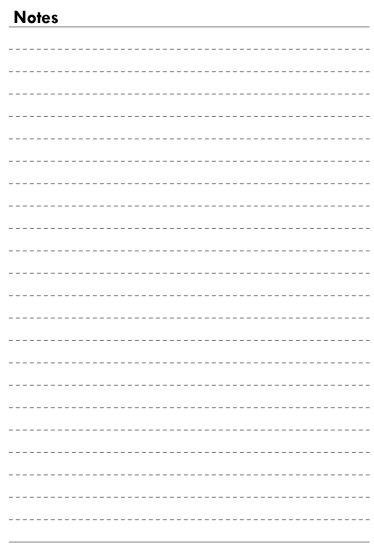
Thursday, 18 February 2021				
10:00 - 11:30	Height and Natural Coordinates	Sten Claessens		
11:30 - 11:45	Session Break			
11:45 - 13:15	Measuring Gravity	Balaji Devaraju		
	Lunch			
14:30 - 16:00	Adjustment of Height and Gravity Networks	Avadh B Narayan		
16:00 - 16:30	Session Break			
16:30 - 18:00	Adjustment of Height and Gravity Networks	Avadh B Narayan		
Friday, 19 Feb	ruary 2021			
10:00 - 11:30	Airborne Gravimetry	Sten Claessens		
11:30 - 11:45	Session Break			
11:45 - 13:15	Satellite Gravimetry	Balaji Devaraju		
	Lunch			
14:30 - 16:00	Terrain Corrections	Rupesh Goyal		
16:00 - 16:30	Session Break			
16:30 - 18:00	Terrain Corrections	Rupesh Goyal		
	Weekend Break			
Monday, 22 Fe	ebruary 2021			
10:00 - 11:30	Satellite altimetry and the marine geoid	Balaji Devaraju		
11:30 - 11:45	Session Break			
11:45 - 13:15	Gravimetric geoid determination	Balaji Devaraju		
	Lunch			
14:30 - 16:00	Satellite Altimetry	Milaa Murshan		
16:00 - 16:30	Session Break			
16:30 - 18:00	Satellite Altimetry	Milaa Murshan		

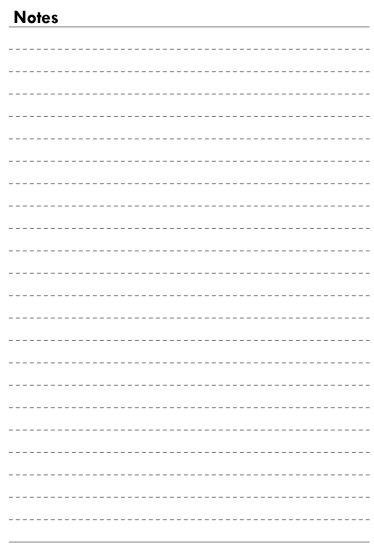
Program

Tuesday, 23 February 2021				
10:00 - 11:30	Practical Evaluation of Stokes Integral	Sten Claessens		
11:30 - 11:45	Session Break			
11:45 - 13:15	Time -Variable Gravity	Balaji Devaraju		
	Lunch			
14:30 - 16:00	Spectral Methods	Avadh B Narayan		
16:00 - 16:30	Session Break			
16:30 - 18:00	Spectral Methods	Avadh B Narayan		
Wednesday, 24 February 2021				
10:00 - 11:30	Relativistic Geodesy	Sten Calessens		
11:30 - 11:45	Session Break			
11:45 - 13:15	Discussion	Balaji Devaraju		
	Lunch			
14:30 - 16:00	Geoid Computation	Avadh B Narayan		
16:00 - 16:30	Session Break			
16:30 - 18:00	Geoid Computation	Avadh B Narayan		
Note Marrian assistant and latera assistant and afternoon assistant and lab assistant				

Registration

All participants must register for the winter school. Please visit the following link for registeration https://forms.gle/Mpb9D7KFMA5oPUop9





Who we are

The National Centre for Geodesy at IIT Kanpur is established to act as the hub of excellence in teaching and research in Geodesy and other related areas at the national and international levels. The objective of NCG is towards productive contribution to the infrastructure development of the country by preparing well-trained human resources at the postgraduate level through collaborative research with international institutes.

Contact Us

Prof. Balaji Devaraju

Member, Coordination Committee
National Centre for Geodesy
Department of Civil Engineering
Indian Institute of Technology Kanpur
Kanpur 208016, U.P., India
Email: dbalaii@iitk.ac.in, nca@iitk.ac.in

