

Revised on: September 06, 2022

**Module- 2: Global Navigation Satellite System**  
**Module/ Course Coordinator: Dr. Ashutosh Bhardwaj**

**Course Duration: 19 September-30 September 2022**

Date	Day	Time	Topic	Speaker
19/09/2022	Monday	1600-1700 hrs	Satellite Navigation*- I	Dr. Suresh Kannaujiya
		1700-1730 hrs	Interactive Session	
20/09/2022	Tuesday	1600-1700 hrs	Satellite Navigation*- II	Dr. Suresh Kannaujiya
		1700-1730 hrs	Interactive Session	
21/09/2022	Wednesday	1600-1700 hrs	GPS receivers, processing methods, errors and accuracy	Dr. Ashutosh Bhardwaj
		1700-1730 hrs	Interactive Session	
22/09/2022	Thursday	1600-1700 hrs	Satellites based Augmentation systems & GPS Aided and GEO Augmented Navigation (GAGAN)	Dr. Ashutosh Bhardwaj
		1700-1730 hrs	Interactive Session	
23/09/2022	Friday	1600-1700 hrs	GPS signal characteristics, Data formats (broadcast, precise ephemeris)	Dr. Ashutosh Bhardwaj & Shri Ashish Joshi
		1700-1730 hrs	Interactive Session	
26/09/2022	Monday	1600-1700 hrs	Indian Regional Navigation Satellite System (IRNSS)	Dr. Ashutosh Bhardwaj & Shri Kamal Pandey
		1700-1730 hrs	Interactive Session	
27/09/2022	Tuesday	1600-1700 hrs	DGPS demonstration (Pre-recorded followed by live query session)	O ffline
		1700-1730 hrs	Interactive Session	Dr. Ashutosh Bhardwaj
28/09/2022	Wednesday			
29/09/2022	Thursday	1600-1700 hrs	Advance GNSS processing	Dr. Suresh Kannaujiya
		1700-1730 hrs	Interactive Session	
30/09/2022	Friday		<b>Paned Discussion</b>	

\*Development of Satellite Navigation Technology, TRANSIT, TSKLON, GNSS: GPS, GLONASS, Galileo and Beidou, Principle of GNSS, Segments, Applications.