

Signal Processing for High-Precision Navigation and Surveillance (06-11 July 2026)

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	9:30 – 11:00 AM		11:00 11:30	11:30 – 1:00PM	1:00 2:00	2:00 – 3:30PM	3:30 4:00	4:00 – 5:30PM
Monday (06 July 2026)	9:30–10:00	10:00-11:00	Coffee Break	1. Overview of Sensors for Navigation	Lunch Break	2. Reference Frames and Coordinate Transfer	Coffee Break	3. State Estimation Using Kalman Filters
	Registration	<i>Inauguration</i>						
Tuesday (07 July 2026)	4. Inertial Navigation Systems (INS) – I			9. NavIC Error Mitigation Techniques		10. Recurrent Network in Estimation		11. 3D Gaussian Splatting based SLAM
Wednesday (08 July 2026)	8. Ranging Codes for Satellite Navigation System			13. Overview of Radars		14. Radar Signal Processing – I (conventional)		15. Radar Signal Processing – II (AI based)
Thursday (09 July 2026)	12. INS-GPS Fusion using Kalman Filters			17. State Estimation for Multi-Target Tracking – II		18. Multi-Sensor Data Fusion for Surveillance – I (Conventional)		19. Multi-Sensor Data Fusion for Surveillance – II (AI based)
Friday (10 July 2026)	16. State Estimation for Multi-Target Tracking – I			21. Drone Borne SAR		22. Radar Detection of Low-Altitude, Slow-Speed and Small (LSS) Targets		<i>Valedictory Function</i>
Saturday (11 July 2026)	20. Synthetic Aperture Radar (SAR) Technology							