

## C.T. LAB 2023 Summer Training Courses

Time : Friday, 10:00 am

Date	Topic	Homework	Speaker
6/30	<ul style="list-style-type: none"> <li>■ Writing C programs in MATLAB</li> <li>■ Cholesky Decomposition</li> </ul>	<div>C Code</div> Using Cholesky Decomposition to Implement Matrix Inverse	涓得
7/7	<ul style="list-style-type: none"> <li>■ Basic Communication</li> <li>■ Zero-Forcing and LMMSE Detector</li> </ul>	<div>MATLAB</div> SISO and MIMO system <div>C Code</div> QAM Modulator and Demodulator	威澄
7/14	<ul style="list-style-type: none"> <li>■ 5G NR (SISO)</li> </ul>	<div>MATLAB</div> 5G NR(SISO) <div>C Code</div> Convolution	少桐
7/21	<ul style="list-style-type: none"> <li>■ Synchronization</li> <li>■ Channel Estimation (SISO)</li> </ul>	<div>MATLAB</div> Synchronization and Channel estimation (SISO) <div>C Code</div> Correlation	東儒
7/28	<ul style="list-style-type: none"> <li>■ 5G NR(MIMO)</li> <li>■ Capacity</li> </ul>	<div>MATLAB</div> 5G NR(MIMO), Capacity <div>C Code</div> Zero-Forcing Detector	少桐
8/4	<ul style="list-style-type: none"> <li>■ Channel Estimation (MIMO)</li> <li>■ SNR Estimation</li> <li>■ CFO Estimation</li> </ul>	<div>MATLAB</div> Channel Estimation, SNR Estimation, CFO Estimation <div>C Code</div> LMMSE Detector	晏丞
8/11	<ul style="list-style-type: none"> <li>■ Linear Block Code</li> <li>■ LDPC</li> </ul>	<div>MATLAB</div> LLR <div>C Code</div> LDPC	昱辰
8/18	<ul style="list-style-type: none"> <li>■ GUI</li> </ul>	<ul style="list-style-type: none"> <li>■ Building GUI and Integrating System</li> </ul>	東儒
8/25	--	<ul style="list-style-type: none"> <li>■ Demo</li> </ul>	--