

Telecommunications Graduate Initiative

Dublin Institute of Technology, 2 - 5 June 2015

Room KE-403, Kevin Street, Dublin 8

Day / Lecturer	Time	Topic
Tuesday Dr Steve Best	09:00 - 10:45 Break 11:15 - 13:00 Lunchtime 14:00 - 15:30 Break 15:45 - 17:00	<ul style="list-style-type: none"> • Overview of design objectives and requirements in a wireless system • Fundamental antenna concepts and properties • Fundamental antenna elements • Electrically small antennas
Wednesday Dr Steve Best	09:00 - 10:45 Break 11:15 - 13:00 Lunchtime 14:00 - 15:30 Break 15:45 - 17:00	<ul style="list-style-type: none"> • Design of Wireless device antennas MICS band, cellular, LTE • Review of various commercial antennas • Modelling and designing antennas with NEC and CST Design examples
Thursday Prof William Scanlon	09:00 - 10:45 Break 11:15 - 12:00 Lunchtime	<ul style="list-style-type: none"> • Propagation considerations • Introduction to MIMO and diversity • Propagation modelling and measurements • Wave propagation in the context of wireless communications applications
Thursday CST	13:00 - 15:30 Break 15:45 - 17:00	CST Workshop on: <ul style="list-style-type: none"> • MIMO Antennas • System Assembly Modelling Framework <ul style="list-style-type: none"> ○ Multiphysics ○ 2D-to-3D modelling ○ Optimising Nested Loops • Hands-on Demos
Friday Prof William Scanlon	09:00 - 10:45 Break 11:15 - 13:00 Lunchtime 14:00 - 15:30 Break 15:45 - 17:00	<ul style="list-style-type: none"> • The channel in context - understanding fading models • Channel measurement techniques • Statistical channel characterisation • Channel aspects of Diversity and MIMO • Massive MIMO and mm-wave MIMO • Channel characterisation lab (UWB channel characterisation)

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