Intending Learning Outcomes (1/3)

1. Examine and compare field structure of TDMA time slot of DAMPS forward and reverse channels.
2. Investigate two propagation models and introduce the concepts of path loss and signal strength contours
3. Examine the concepts of long and short term fading, Doppler effect, level crossings, and coherence bandwidth

Intending Learning Outcomes (2/3)

4. Investigate main types of interference in mobile systems, methods of reducing interference, and solve simple design problems to meet performance criteria
5. Examine a probabilistic interference model and the effect of different parameters on it
6. Investigate types of hand-over, hand-over criteria, hysteresis, and their influence on performance

Intending Learning Outcomes (3/3)

7. Model simple problems related to interference, power control, DTX, and propagation using simulation tools and present results in a team.
8. Introduce key concepts of 3G, key differentiators of 3G such as cell breathing, code planning, fine power control.