- Writing system equations
- solution of differential equations
- Laplace transform
- system representation
- control-system characteristics
- root locus frequency response
- closed-loop tracking performance based on the frequency response
- root-locus compensation design
- frequency-response compensation design
- control-ratio modelling
- design closed-loop pole-zero assignment (state-variable feedback)
- parameter sensitivity and state space trajectories
- sampled-data control systems