Course Map

"Gaseous Electronics is the study partially ionized gases and their application to technologically relevant devices."

MICROSCOPIC  →  MACROSCOPIC

Electron collisions

Cross sections, rate coefficients

- Gas discharge theory
- Electron production, loss
- Sheaths
- Electron distribution functions
- Transport coefficients

Low pressure dc discharge devices

High pressure discharges and e-beam pumped plasmas

rf and microwave discharges

Diagnostics

Applications:
- Plasma etching
- Toxic Gas Remediation
- Special Topics