Aerospace Engineering

Course Title: Principles of Design of Propulsion System and Micro-Thrusters **Number of Credits: 3**

Course Topics:

- An Introduction to Space Propulsion Systems
- Mission Analysis
- Aero-thermodynamics of Propulsion Systems
- Liquid-Propellant Systems
- Solid-Propellant Systems
- Electrical Propulsion Systems
- Mission Design

Reading Resources:

- Philip G. Hill, Carl R. Peterson, "Mechanics and Thermodynamics of Propulsion". Addison-Wesley Series in Aerospace Science, 1965.
- George P. Sutton, Oscar Biblarz, "Rocket Propulsion Elements". Wiley, 2016.
- Maurice J. Zucrow, "Principles of Jet Propulsion and Gas Turbines". Wiley, 1949.
- Wiley J. Larson, James R. Wertz, "Space Mission Analysis and Design". Kluwer Academic Press, 2007.