

Gas Dynamics

Course Code:

ME 439

Course Type:

Area Elective

Credits:

3

Theoric:

3

Practice:

0

Laboratory Hour:

0

ECTS:

5

Prerequisite Courses:

Fluid Mechanics [1]

Course Language:

English

Course Content:

Basic equations of compressible flow. Stagnation and sonic properties. Normal shock relations, oblique shock and expansion waves. Unsteady wave equation. Linearized flow, conical flow. Numerical techniques for supersonic flow, method of characteristics. Transonic flow, hypersonic flow