

# Applied Fluid Mechanics

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Course Code:

ME 436

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 theory of turbomachinery. Dimensionless parameters and similarity laws. Impulse and reaction turbines, centrifugal pump, performance characteristics. Fundamentals of aerodynamics: airfoil geometry, generation of circulation, conformal transformation, lift and drag characteristics of airfoils. Application to engineering problems.